

Tyrosinium Geographicum Londinense;

PR

The London Geography,

Consisting of

DR. FREE's, SHORT LECTURES;

Compiled for the use of his *Younger* PUPILS,

PUBLISHED

Chiefly for the Information of *genteel* Young CITIZENS
not attending the *Gresham* PROFESSORS, and very proper
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of the *first* year in the Universities; and for *Ladies*
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The Periegesis of Dionysius,

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antient and modern Science.

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June 8th, 1789. Ætat 78.

JOHN FREE.

*Quique pii Vates, et Phæbo digna locuti,
Inventas aut qui Vitam excoluere per artes,
Quique sui memores alios fecere merendo.*

P R E F A C E.

CONCERNING

The general Use of GEOGRAPHY.

GEOGRAPHY is in some Degree so necessary a Qualification to Persons who wear the Appearance of a Gentleman, that in Conversation with People of that Rank, they are sure to be despised, if in this respect they betray their Ignorance.

In Commercial Nations, like ours, People in Business acquire such a competent Knowledge of it as to think meanly of those, who are less acquainted with it than themselves.

What an unpardonable fault then it must be, in those who have the Care of the Education of Persons of the Learned professions, as Clergymen, Lawyers, Physicians, &c. to suffer them to appear deficient in an Article so necessary to fit them for Conversation with People of more elevated Stations, to which their several Employments may introduce them; where the discourse of the Company often turns upon Politics and
-History

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To prevent this disgraceful Ignorance in Men, whose condition in Life leads the World to imagine that they have had a liberal Education, some Foundation in Geography should be laid in their Youth at the Time of inculcating the first Principles of other Learning: Because it is not only soon wanted, but almost perpetually.

A worthy Schoolmaster, at the Head of Merchant Taylor's School, was so far convinced of this, when his Scholars stepped into the Classics, that he allowed them one Afternoon in the Week, to be spent in drawing of Maps, which furnished them with an Idea of the Countries of which they were then reading, and proved afterwards of Service to them for the rest of their Lives.*

* The Rev. James Townley, M. A.

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TYROCINIUM, &c.—

BOOK I.

CHAP. I.—*The Introduction and the Division of the Science into its several parts.*

GEOGRAPHY is a *science* which upon the first and *general* view, appears to be divided into two parts: being either **SCIENTIFICK** or *artificial*, which depends immediately upon *Science*: or *History*, which is either natural, relating to the Form of Countries, such as Rivers, Lakes, and Mountains, or the Produce of the same; or *Political*, which describes the *History* of the *Inhabitants* of the several *Regions* which they divide amongst them, upon which last account it's again divided with respect to **TIME** into **ANTIEN**T and **MODERN**, according to the Origin and Variations of the People, and Succession of Empires as they rise and fall.—For this Reason the Treatise is divided into two

B Books

Books, 1st *Scientific* and *Artificial*, the 2d *Historical* or *Political*.

Geography therefore is the Knowledge of the *Earth* under these four *Descriptions*, — *Scientifick*, *Historical*, and with respect to *Time Antient* and *Modern*.

The *Earth* first appears to us as a Collection of *Earth* and *Waters*, which being joined together form a Body of a spherical Figure, the learned call it an *Oblate Spheroid*, flatted at the Poles: it's *Form* is in great measure gathered from the Appearance of it's *Shadow* in the *Eclipse* of the *Moon*: but to us, who inhabit it, it appears under one *circular Superficies* compounded of *Earth* and *Water*, otherwise called the *Terraqueous Globe* distinguished into *Terra Firma*, or *Continents*; *Isles*, *Oceans*, *Gulphs*, &c. which makes the *Natural History* of the *Earth*.

The *Superficial Content* of the whole Body of the *Earth* and *Sea*, according to *English* Geographers is computed at 148,510,627 square Miles, and the *Circumference* of it according to *Peters*, a *French* Geographer,† is about 9000 Leagues. It is surrounded, he says, by the *Air*, in the *Midst* of which it is supported thro' the

† Ce Corps qui est d'une vaste etendue puisqu' il a neuf Mille Lieues de Tour.

Almighty Power of God, who by the Adhesion or Attraction of it's *Component* Parts, has so ordered it, that every Thing upon it's *Surface* should naturally tend to the *Center*, and will keep that Situation, unless removed by Violence.

The *Earth* so disposed and compacted for Rotation, is capable of two *Motions*, the one round it's own *Axis* from *West* to *East* in twenty-four Hours, which gives us our *Day* and *Night*; tho' this is commonly esteemed to come to pass by the *Earth's* standing still, and the *Sun's* going round, from *East* to *West*; the other, which accompanies this, is at the same Time a Protrusion in its own *Orbit*, in a *Spiral* Direction, which *Orbit* it measures round in the Compass of 365 Days, 5 Hours and 49 Minutes, that is near an Hour, and makes one Year; however by Custom, these Revolutions of the *Earth*, and Changes which ensue from it, have been attributed to the Revolutions of the *Sun*; because Men in their first Observations were led by their Sight, and believed the *Sun* to move, and as that is still the Notion and Language of the *Vulgar*, and not yet departed from, in Treatises upon Astronomy we shall retain the common form of Speech, and suppose

the *Annual* Motion to be in the Sun, and his Course through the *Ecliptic*.

The *Sun* then instead of the *Earth* finishes his Course in a Year, that is in 365 Days, 5 Hours and 49 Minutes, which 5 Hours and 49 Minutes the Sun's annual Revolution requires above 365 Days, will in 4 Years time amount to near a whole Day—Therefore every 4th Year has 366 Days, and is called the *Leap Year* in England : and Bissextile from the *Roman Calendar* ; the superadded Day being the 29th of February, which is the 6th Day from the Calends of March, reckoned twice over.

It is observable that the Sun in his Passage is confined to certain Bounds, and that the Regions of the Earth are subject to great Heats or extreme Colds, according as they are situated far or near to that Space, where this glorious Heavenly Body makes its Course, and uniformly holds.

To comprehend these things the better, the Wit and ingenuity of Man have invented certain Circles, from the imaginary Combination of which, they composed an Instrument which they called a Sphere, which consists only of Circles, and appeared like a Bracelet, and therefore was called an Armillary Sphere ; from thence was formed the Globe, and thence the Sections
and

and Pieces of the Globe in Maps and Charts.

From these Inventions which are called the imaginary †parts of Geography, Men have found it necessary to distinguish in the first place the Circles, into greater and less.

The first Sort of these Circles divides the Globe into two equal Parts, the second into Parts that are unequal; they are both of them supposed to contain 360 Parts, which are called Degrees.

The four large Circles are the *Equinoctial*, the *Zodiac*, the *Horizon* and *Meridian*: the little ones are the two Tropicks of Cancer and Capricorn, the two polar circles Arctick, and Antarctic; of these we shall speak in Order in the following Chapter.

C H A P. II.

Of the GREATER CIRCLES in brief, the Equinoctial, the Zodiack, the Horizon and Meridian; and the two Colures.

THE Equinoctial is a Latin name derived from *Æquus* equal and *Nox* a Night) and so called because when the Sun in it's Course is there arrived, the Days are equal to the Nights. It divides the World into two equal parts and is therefore

† *Heylin.*

called

called the *Equator*, the *Sailors* name it simply the *Line*. The better to understand this Circle, it is necessary to know that the Earth moves upon two imaginary Points which are called Poles, the one Arctic, the other Antarctic, (from *ἄρκτος*, a Greek word) signifying a Bear, or Constellation in the Heavens; between these two Poles is poised the Globe. It's Use in Geography is to divide the World into two equal Parts or *Hemispheres*, the one North, which lies towards the Arctic Pole, and the other South which lies towards the Antarctic Pole. The Latitude of Places is reckoned from the Equator to either of the Poles, and that Space contains 90 Degrees. The Latitude therefore is either North towards the Arctic Pole, or South towards the Antarctic.

The Zodiac, or by another Name, the *Ecliptic*, shews the annual Course of the Sun; it is called Zodiac from the Greek *ζῳδιον*, which signifies an animal, because it contains most of the fancied Animals which form it's Constellations, or Signs: ♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittarius, ♑ Capricornus, ♒ Aquarius, ♓ Pisces.

For this spreads 7 or 8 Degrees on each side of the Ecliptic. (Watts) The Circle

Circle called the *Ecliptic* cuts the *Equator* into two equal Parts, and is removed from it only $23\frac{1}{2}$: every Degree of it shews the *Suns* Place every Day in the Year, and in what Parts of the Earth it's perpendicular to the Inhabitants, and is nothing else than the Plane of the Earth's Orbit supposed to be extended to the Region of the fixt Stars, which afford on both sides the Signs or Constellations.

The *Horizon* means a Boundary, from the Greek *Ὠρίζω*, *HORIZO*, to *limit* or *determine* ; because it terminates our View and divides the Earth into two Parts, which are called *Hemispheres*, one of which we see, the other we never see, being the southern Hemisphere. The *Horizon* as it's placed, gives three different Names to the Sphere.

If it cuts the *Equator* at *Right Angles*, it is a *Right Sphere* : if it is *parallel* to the *Equator* it is a *parallel Sphere*, and if it is *oblique* to the *Equator* it is an *oblique Sphere*. The first is the Situation of those who live under the *Equator* ; the 2d of those who are placed under the *Poles*, and the 3d, the situation of the rest of the World, where the *Horizon* cuts the *Equator* *obliquely*.

This Circle shews also the rising and setting of the Sun and Stars, and the four principal Divisions of the World, which
are

are the *East*, *West*, *North* and *South*. The East is on the Side where the Sun rises, and is therefore called the Sun's rising Orient, or the *East*. The *West* is where it descends, and is therefore called the Sun's setting, or the *West*.

That which we call the *North*, is towards the *Arctic Pole*; and the place of *Mid-day*, which is called the *South*, lies towards the *Antarctic*.

These four Points or Divisions are necessary to mark the Situation or Bounds of Countries. It is from these Quarters that the principal or Cardinal winds derive their Names, and their *subordinates* likewise, as may be seen in the following Chapter, relating to the points of the Globe.

The *Horizon* serves all these Purposes and many more, but it is not marked upon the Body of the Globe or Maps, by reason of it's being so variable, but is represented by a broad flat Circle or wooden Frame, which contains the body of the Globe: of which more hereafter, when we come to treat of the *Sensible* and *Rational* HORIZON. Suffice it to remark here, that the *Horizon* is the Circle which divides between the upper and lower Parts of the Earth and Heavens, which is called the *Horizon*, and determines the rising and setting

ting of the Sun and Stars, and distinguishes Day and Night.

When the Sun is on the East part of the Horizon, it is then rising; when on the West, it is setting; when it is above the Horizon, it is Day; when below, it is Night: yet till the Sun is 18 Degrees below the Horizon, it is usually called Twilight, because the Sun Beams shooting upwards are reflected down to us by the Atmosphere after Sun set, or before Sun rise, which is called Refraction. For the Rays being broke in their Passage through the thick Air more than once, make the Sun appear sooner above the Horizon than he would otherwise do, and disappear later, when at his setting, and it's upon this Account that in our Horizon at London, there is no perfect Night in the very middle of Summer, for two Months together; because the Sun is not 18 Degrees below the Horizon. I shall treat more of this in the Chapter that distinguishes between the *Sensible* and *Rational* Horizon.

The *Meridian*, means the *Half* of a *Day*, because when the Sun is there arrived, it is *Mid-Day* at the Place where that Circle is the *Meridian*; for each Place of the Earth hath its *Meridian*, and as the Number of these Circles would be almost infinite, therefore out of this great Number they have

have chosen one, which they call the grand or *First Meridian*, or the *Meridian of Geographers*.

The Antients placed it in the *Canaries*, which they called the *Fortunate Islands*, and some Moderns follow their examples in their Charts: others have made choice of the *Azores*, which lie to the *West* of *Europe*. From this *Meridian* they count the *Longitude*, going from the *West* to the *East*, which is the whole Circle of the *Earth*.

Others divide it into *Eastern* and *Western*, that is 180 Degrees each way from where they place their first *Meridian*.

It is usual in Books of this kind after mentioning the 4 greater circles, to add the 2 colures, which are likewise Great circles, tho' they are not much used for any common Practices in the Globe, the one cutting the *Ecliptic* of the Heavenly Globe in the two Solstitial Points, *Cancer* and *Capricorn*, which is called the *Solstitial Colure*; the other in the *Equinoctial* Points, *Aries* and *Libra*, is called the *Equinoctial Colure*.— It is here to be observed of the larger Circles, that whenever we move to any distance, East or West, we change our *Meridian*, and if North or South, our *Horizon*: for which Reason, those Circles are not described as fixed on the Globe, but to shew the *Meridian* or *Horizon* of a Place, it must

must be brought to the Brazen Meridian or to the Wooden Horizon, because of their Changeableness: but the Equator and Ecliptic remain always the same; for which reason they are called unchangeable.

C H A P. III.

Of the less Circles, as comprehending the Zones, Climates, and Distinctions of Men by the Places of their Habitation.

THE lesser CIRCLES divide the Globe into *unequal* Parts, and are these four all parallel to the Equator: the two *Tropics* and the two *Polar* Circles. The *North* is called the *Arctic*, from (*Arktos*) the Constellation representing the Great Bear: and the South *Antarctic*. The *Tropicks* are each of them $23\frac{1}{2}$ from the Equator, and the *Polar* Circles the same Distance from the Pole.

These lesser Circles divide the Earth in respect to the various Degrees of Heat and Cold into 5 *Zones*, a Greek word signifying a Girdle or Belt, (*viz.*) two *Frigid*, two *Temperate* and one *Torrid*, which lies between the two *Tropicks*: the two *Temperate* between the two *Tropicks* and *Polar* Circles. The two *Frigid* between the *Polar* Circles and the *Poles*.

The

The Inhabitants of the *Torrid Zone* are called *Afcii*, because the *Noon Sun* being sometimes exactly over their Heads, they have no *Noon Shade* on either Side of them; they are also called *Amphiscii*, because the Noon Shade falls sometimes of the Year to the *North* of them, and sometimes to the *South*. The Inhabitants of the *Temperate Zones* are called *Heteroscii*, having their *Noon Shade* only on one side of them, *North* or *South*, as they are so situated towards the *Equator* throughout the whole Year. Such as live in the *Frigid Zones* are called *Periscii*, because some time of the year their shadow hath a *Circular Motion* in twenty-four Hours; the Sun not setting to them within that space, but continuing about the *Horizon* for one, two &c. or six Months together, according as they are farther or nearer the *Pole*, and all derive their Names from a Greek word (*σνία'*) a Shadow. It is upon this account the various Quantity of the length of Days, that the Earth is divided into CLIMATES. (Wells Geography as above, p. 10.) A Climate is a Space of Earth, the longest Day of which exceeds the longest Day of the precedent Climate, (reckoning from the Equator) by half an Hour, and whereas the *Antients* reckoned but seven Climates on each side the Equator, viz. to 50 Degrees 30 latitude, there are now reckon-

ed

ed 24 each way, even up to the *Polar* Circles, and 6 from the *Polar* Circles to each *Pole*, in all 60, according to the following

T A B L E,

Quantity of Latitude,					Quantity of Latitude.				
Longest Day,					Longest Day.				
Clim.	Hour	Min.	Deg.	Min.	Clim.	Hours	Min.	Deg.	Min.
0	12	00	00	00	13	18	30	59	58
1	12	30	08	25	14	19	00	61	18
2	13	00	16	25	15	19	30	62	25
3	13	30	23	50	16	20	00	63	22
4	14	00	30	20	17	20	30	64	06
5	14	30	36	28	18	21	00	64	49
6	15	00	41	22	19	21	30	65	21
7	15	30	45	29	20	22	00	65	47
8	16	00	49	10	21	22	30	66	66
9	16	30	51	58	22	23	00	66	20
10	17	00	54	27	23	23	30	66	28
11	17	30	56	37	24	24	00	66	21
12	18	00	58	29					

In the *Frigid* Zone the continuance of Day-light encreases by Months, thus :

Month	1	2	3	4	5	6
Lat.	deg. min. 67 15	deg. min. 69 30	deg. min. 73 20	deg. min. 78 20	deg. min. 84 10	deg. 90

As Men live in different Climates and in different Degrees of Longitude and Latitude

itude, they are divided also with respect to their Habitation, into *Periæci*, *Antæci* and *Antipodes*. The *Periæci* are such as dwell in the same *Latitude*, but directly opposite *Longitude*: the *Antæci* are such as dwell in the same *Longitude* and equal *Latitude*, but one *North* of the Equator and the other *South*: the *Antipodes* have both *Longitude* and *Latitude* diametrically opposite to the other.

C H A P. IV.

Of the Remarkable Points.

1 & 2 **A**R E the two *Poles* of the Earth or the Heavens; these are also stiled the *Poles* of the Equator, for they are 90 Degrees distant from it; from one of these *Poles* to the other, a supposed Line runs thro' the Center of the Globe of the Earth, and the Heavens, and is called the *Axis* or *Axle* of the World.

3 and 4, are the *Zenith*, or Point just over your Head, and the *Nadir* just under your feet; they may be called the *Poles* of the *Horizon*, for they are 90 Degrees distant from it every way.

5, 6, 7, and 8, are the four *Cardinal Points*, *East*, *West*, *North* and *South*; these four

four Points are in the *Horizon*, and for the use of Sailing are sub-divided into 8 Points, which are called, Rhumbs, so that there are 32 Points in all, each Rhumb containing $1\frac{1}{2}$ Degrees; these, as has already been observed, are described upon the utmost Circle of the *Horizon*.

9 & 10, are the two *Solstitial* Points these are at the begining of the signs *Cancer* and *Capricorn*, in the *Ecliptic* Line, where it just touches those two *Tropicks*. These Points shew the Sun's place, on the *longest* and *shortest* Days, the first is the 21st of June, 8 H. 29 Min. the other is the 21st of December, 2 H. and 23 Min. (*Note*, these Days are called the *Summer* and *Winter* Solstices because the Sun seems to stand still, that is to make the Days neither encrease or decrease sensibly for 20 Days together.)

11 and 12, are *Aries* and *Libra*, the two *Equinoctial* Points where the *Ecliptic* cuts the *Equator*: When the Sun enters these two *Signs* the Days and Nights are equal all over the World; it enters *Aries* in the Spring, the 20th of March, (10 H. 29 Min.) which is called the *Vernal Equinox*, and *Libra* in Autumn, 22^d of Sept. (10 H. 3 Min.) which is called the *Autumnal Equinox*: the 4 Points, viz. 2 *Equinoctial* and 2 *Solstitial* divide the *Ecliptic* into the 4 quarters of the Year.

13 and 14, It may not be improper here to mention the Poles of the *Ecliptick*, which are two other Points marked upon the Celestial Globe.

If an Axis was thrust thro the Centre of the Globe at Right Angles with the Plane of the *Ecliptick*, it's end would be found in the two *Polar Circles*, which is of great use in Astronomy, where the *Ecliptick* is the Principal guide, as the *Equator* is in Geography.

C H A P. V.

Of the Combination of these Points and Circles forming an Analemma, for supplying the Place of the Globe.

T H E R E are besides those mentioned above, 2 Points, where the Moons *Orbit* cuts the *Orbit* of the Earth, distinguished by the name of Nodes; that, whereby any Planet crosses the *Ecliptick* ascending is called the Dragon's Head, and marked thus & and where the Planet crosses the *Ecliptic* descending to the *Southward* is called the *Dragon's Tail*, and marked thus, 8. But these Points belong to Astronomy, and are only mentioned here to shew, that if the Moon's path and the Earth's were precisely the

the same, or in the same Plane, then at every new Moon the Sun would be eclipsed, and at every Full, the Moon would be eclipsed by the Earth's coming betwixt the Sun and the Moon, and from these Eclipses the Circle called the Ecliptic derives it's name.

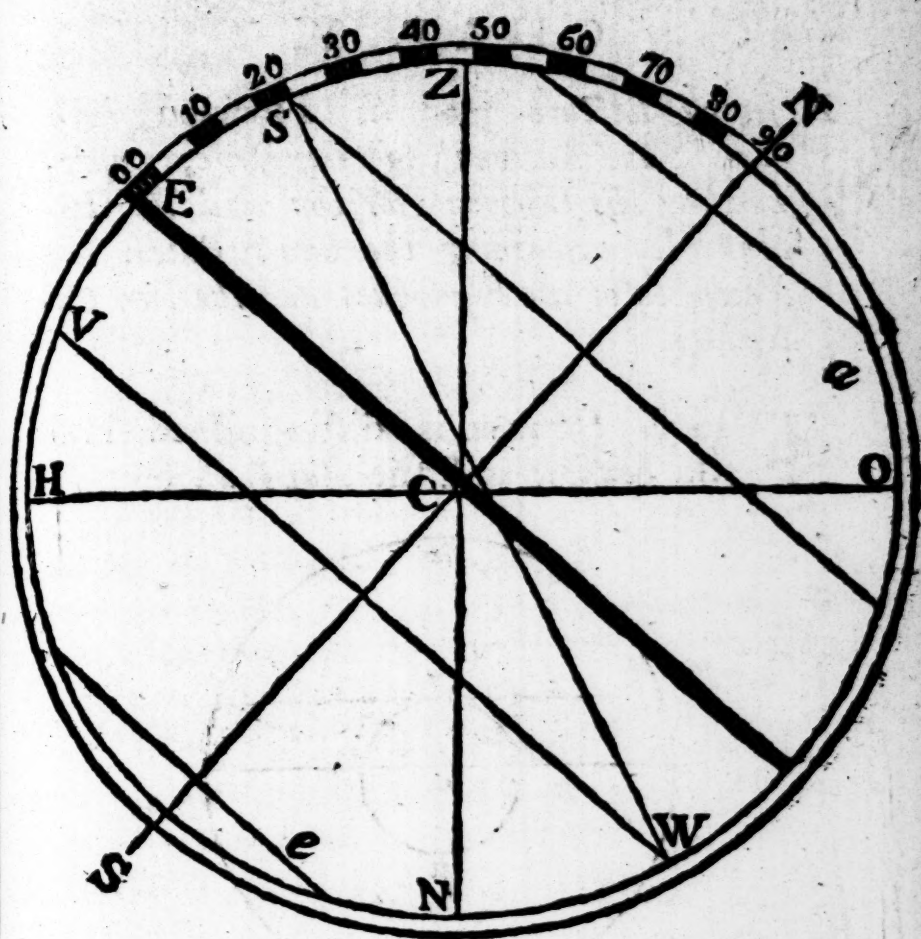
It may not be amiss before we proceed farther, to let the Reader see a representation of the foregoing *Circles* and *Points* on the Globe, just as they stand in our *Horizon* at *London*, and so far as they can be represented on a flat Surface and in streight lines.

Let the North Pole be raised above the North part of the *Horizon* to $51\frac{1}{2}$ Degrees which are numbered on the *brazen Meridian*, and then let the Globe be placed at such a distance as to make Convexity insensible, and appear as a flat or plain surface. This projection where the *Circles* appear as streight lines, is called *Orthographick*: but where the Form of the *Circles* is preserved, *Stereographick* or *Circular*: and let the Eye of the Spectator in this position of the Globe be just level and *opposite* to C. which represents the East Point of the *Horizon*, then the Globe and the *Circles* on it will appear nearly as represented in the following figure. The large Circle divided by every five Degrees, represents the *Meridian*

the rest of the *larger* and *lesser* Circles are inserted together, with the *North* and *South* Poles, Z. is the Zenith of London, N. the Nadir, H. the South point of the *Wooden Horizon*, O. the *North Point*, C. the *East* and *West* points, S. the *Summer Solstice*, W. the *Winter Solstice*, E. the *Equator*, (a) the *Ecliptick's North Pole*, (e) the *Ecliptick's South Pole*. The two *Equinoctial* Points are represented by (C) supposing *one* to be on this side, and the *other* on the opposite side of the *Globe*.

If you would have the two *Colures* represented in this figure, you must suppose the *Meridian* to be the *Solstitial Colure*, and the *Axis* of the world to be the *Equinoctial Colure*.

This representation or projection of the Sphere in streight lines, is usually called an *Analemma*. The *Zones* are represented in the same Figure.

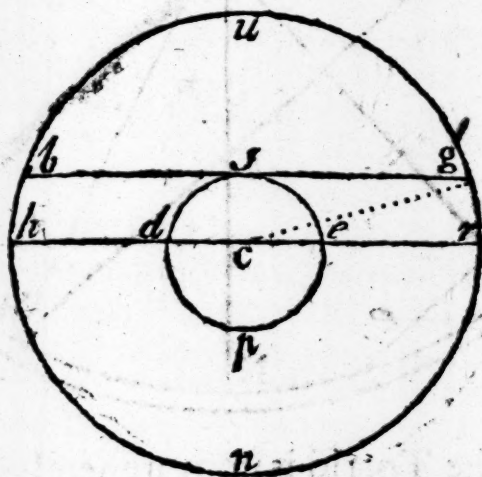


For the Torridis comprehended between the two Tropics : the two Temperate between the Tropics and the Polar Circles, and the two Frigid extend from the Polar Circles to the Poles.—Where the Globe is wanting, the foregoing Figure will partly supply it's place.

C H A P. VI.

A second Lecture upon the Horizon, both Sensible and Rational; more at large, comprehending the Wooden Horizon and it's appendages, explaining the Sun's Place, the Precession of the Equinoxes and the two Calendars.

THE Horizon is distinguished into the Sensible and the Rational.



The *Sensible Horizon* supposes the Spectator placed on the Surface of the *Earth* or *Water*, and reaches as far as the Eye can see, but the *Rational* or true *Horizon*, supposes the Spectator placed at the Center of the Earth at C and thus divides the Globes both of the Heavens and the Earth into two halves.

Suppose

Suppose on the Circle s. d. p. e. to be the Earth : and the Circle u. b. h. n. r g. the Heavens ; b. s. g. the line making the *Sensible Horizon*, and h. r. the *Rational*. The *Sensible Horizon* on the *Earth* or *Sea*, includes a. s. o. and reaches but a little way, for if a Man six feet high stood upon a large Plain, or the Surface of the *Sea*, he could see no farther than three Miles round him.

Thus it appears that the *Sensible Horizon* on the *Earth*, or on the *Sea* a. s. o. differs very much from the Extent of the Real and Rational Horizon, d. s. e. but as to the Heavens, where the fixt Stars remain, the *Sensible Horizon* b. u. g. scarce differs at all from the Rational, because of the distance, tho' with respect to the *Planets*, which are much nearer the Earth, the Semi-diameter, that is, sc. or gr. is of some consideration.

It may therefore be proper to note in this place, that suppose a Planet to be at g. if the Eye of the Spectator were on the Surface of the Earth, at s. he would behold it level with the *Horizon* : but if the Eye were at the Centre of the Earth, or c. he would behold it raised several Degrees or Minutes above the *Horizon*, even the quantity of the Angle, c. c. r. or (which is all one) s. g. c.

The

This *difference* between these two *Places* of the Spectator makes a Variation or difference between the places g. and r. or rather Quantity of the Angle, g. c. r. or (which is the same) s. g. s. which is therefore called by a Greek Word it's *Parallax*, or Horizontal *Parallax*, or Parrallactic Angle, of great use in *Astronomy* to adjust the real distances, and consequently the real Magnitudes of the several Planets : but only mentioned here.

Whensoever we move on the Earth, either East, West, North or South, we change our Horizon, both Sensible and Rational : for even Motion, or change of Place gives us a Hemisphere of Sky or Heaven over our head a little different from what it was ; and we can see less on one side of the Globe of the Earth, and more on the other side. Whensoever we move toward the East or West, we change our Meridian : but we do not change our Meridian if we move directly to the North or South. Upon this account, the *Horizon* and *Meridian* are called *changeable* Circles, and the Globe is made moveable within these Circles to represent this *changeableness*, whereby every Place on the Earth may be brought under it's proper Horizon.

But the *Equator* and the *Ecliptick* are called unchangeable Circles, because whensoever

ever we travel or change our Places on the Earth, these Circles are still the same.

The Horizon therefore not being painted on the Globe, is placed upon a wooden Frame without, which supports it: it represents the Rational Horizon being placed in the Center of the Earth. The inner, edge is divided into 360 Degrees or 12 times 30, allowing 30 Degrees to every Sign or Constellation, the Figures of which are usually drawn there. They are as follow; ♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittarius, ♑ Capricornus, ♒ Aquarius, and ♓ Pisces.

It is to be noted here, that the Signs or Constellations in the Heavens, obtained their names about 2000 Years ago, or more, chiefly from the Egyptians, as partly appears from their Characters, which are Hieroglyphical, and at that time the Stars that make up Aries or the Ram, were in the place where the Ecliptic ascending, cuts the Equator; but now the Constellation Aries is moved upwards towards the place of Cancer, near thirty Degrees; and so every Constellation is moved forward in the Ecliptic from the West towards the East, near thirty Degrees, so that the Constellation or Stars that make up the Sign Pisces, are now in the place where Aries was, or where
the

the Ecliptic cuts the Equator in the Spring. And the Constellation Virgo is now where Libra was, or where the Ecliptic cuts the Equator in Autumn; so Gemini is in the Summer Solstice where Cancer was, and Sagittarius in the Winter Solstice where Capricorn was. And by these means the Sun is got into the Equinox in Pisces and Virgo, and is arrived at the Solstices in Gemini and Sagittarius, i.e. when it is among those Stars.

In reference then to the 12 *Divisions* of the *Ecliptick*, on the Surface of the Wooden Horizon which surrounds the Body of the Globe, it is to be observed, that neither the Constellations themselves nor their names, but their Characters or Hieroglyphics shew which Division of the Ecliptic is esteemed respectively to belong to each Sign, or goes under the name of each Sign. Thus the Character, or Hieroglyphical representation of Aries is placed at the Beginning of that Division, which is esteemed to belong to Aries, tho' the said Division of 30 Degrees between Aries and Taurus is almost out of that Division. The same Method is to be observed with the rest. (Wells

The reason of this is to avoid Confusion, for tho' the Constellations themselves are continually, though very slowly changing their Situation in the Zodiac or Ecliptic,
in

in conformity thereto, continually to change the names of the several Divisions, would create great uncertainty in Astronomy; forasmuch as it would make it an intricate Matter rightly to distinguish what parts of the Zodiac belonged to the several Signs, in different Ages of the World.— Wherefore to avoid such Confusion, it has been with great Prudence judged expedient not to make any Change as to the names of the Divisions, (though the Constellations themselves do in process of Time change their Places,) but always to look on that, which is esteemed the first Division of the Zodiac, as belonging to Aries, at least to let it go always under the name of Aries, and so onto the rest: tho' that Constellation, and consequently the rest, has now so changed its Situation, as to be mostly out of it's respective Division, and will in process of Time be removed farther and farther from it.

Agreeably to the 12 Signs of the Zodiac the Solar Year is divided into 12 Months, called Solar Months, each being the space wherein the Sun goes through a Sign, and so continuing 30 Days and an half. It's Motion is in a Spiral line, advancing one Degree on the Ecliptic Daily, when the Sun gains 90 Degrees on the Ecliptick, which is an oblique Circle, in a Quarter of
D a Year

a Year, it gains but $23\frac{1}{2}$ of direct Distance from the Equator measured. Now the Solar Months answer to the common *Calendar* Months, or which amounts to the same, what Degree of *Ecliptick* the Sun is in each Day of the 12 *Calendar* Months, is to be seen on the upper Surface of the broad Wooden Circle of the Globe, commonly called the *Horizon*; for thereon the 12 Signs of the *Ecliptic*, and the 12 *Calendar* Months are so placed, both according to the *Julian* and *Gregorian* Account, as that the Days of one may duly answer to the respective *Degrees* of the other.

The *Julian* Account, or the *old* *Stile* was the work of Julius Cæsar, and was used in England 'till 1752: the *Gregorian* Account was formed by Pope Gregory in the XIII, *Century* and was introduced in the Room of the old in the Year 1582, and is called the new *Style*, which is 11 Days sooner than the old, as you may see by the Position of the *Calendars*, where the 10th of March in the first or old *Calendar*, being right against the 21st in the new or *Gregorian* *Calendar*.

The Sun is reckoned to go through almost one Sign every Month or 30 Days, and thus to finish the Year in 365 Days, 5 Hours and 49 Minutes, i.e. nearly 6 Hours. It.

It may not be improper in this Place to remark, that those 5 Hours and 49 Minutes which the Sun's annual Revolution requires above 365 Days, will in 4 Years time amount to near a whole Day—Therefore every 4th Year has 366 Days in it, and is called the *Leap Year*, and *Bissextile* from the *Roman Calendar*; where they reckon twice over the 6th Day before the Calends of March, i.e. 24th of February.

It may be further remarked also, that the odd 11 Minutes, which are wanting Yearly to make up a compleat Day of 24 Hours, are accounted for in the new Style by leaving out a whole Day once in 133 or 134 Years: And it is the Neglect of accounting for these odd Minutes in the old Stile above a 1000 Years backwards, that has made the Difference between the old Stile and the new to be at present 11 Days.

On the outward Verge of the Horizon is the Circle of the Winds or Rhumbs, viz. the Mariner's Compass, being 32 in number, (beginning at the North) each Point or Rhumb contains $11\frac{1}{2}$ Degrees: For 32 multiplied by $11\frac{1}{2}$ makes 360.

But if you have *Senex's* Globes improved by Mr. *Martin*, the Horizon has on it 5 Circles.

1st. The Circle next the Globe shews the Azimuth from South to North, both Eastward

Eastward and Westward 180 Degrees.

2d. The next Circle is that of *Amplitude*, numbered from the East and West Points to both North and South, 90 Degrees.

3d. The third Circle contains the 32 Points of the Mariner's Compass.

4th. The fourth is that of the Months and Days throughout the Year.

5th. The fifth is the Ecliptic, and contains the Names Marks and Figures of the 12 Signs of the Zodiac, which Variety shews, that we are not to expect every Particular Pair of Globes to be exactly in this Respect of the same Construction, as the different Makers make them differently.

C H A P. VII.

A second Lecture upon the Meridian more at Large; the brazen one, and its Appendages, such as the Hour Circle, Quadrant of Altitude, &c.

THE Meridian means, as was observed before, the half of a Day, because when the Sun is there arriv'd it is Mid-day at the Place, where that Circle is the Meridian; but besides this Distinction, the Meridian serves many other purposes.

The

The brazen one which represents the rest, and to which they are all subordinate, is *divided* and *graduated*, and the graduated side is always to be turned to the East: It is not like the Equator and the Ecliptic divided into 360 Degrees, but into four ninety-ties. In this manner from the Equator towards the the North and South Pole, the Meridian is marked with a Cypher over the Equator thus, (0) and on each side with 10, 20, 30, 40, 50, 60, 70, 80 and 90—and from the Pole to the Equator it is marked 10, 20, &c. to 90 on the other side, which ends in the Equator: as many Degrees as one Pole is elevated or raised, so many Degrees will the other Pole be lowered or depressed, which elevation of the Pole, shews the Latitude of the Place.

The Meridians also mark the Hour;—for the same Lines which are called Lines of Longitude or Meridians on the Earth, are called Hour Circles on the Heavenly Globe, and if they be drawn through the Poles of the World at every 15 Degrees on the Equator, then they will divide the 360 Parts or Degrees into Hours.

Note, As 15 Degrees make one Hour, so 15 Minutes of a Degree make one Minute

nute in time, and one whole Degree makes 4 Minutes in Time.

Observe likewise, Degrees are marked sometimes with (d) or with a small (o)—Minutes of Degrees with a Dash (')—Seconds of Minutes with a double Dash (")—Hours with (h)—Minutes of Hours sometimes with (m) and sometimes with a Dash: Seconds with a double Dash.

By these Meridians or Hour Lines crossing the Equator on the Heavenly Globe, the Eye is directed to the true Hour, or the Degree of Right Ascension on the Equator, though the Sun or Star may be far from the Equator.

By these you may also compute on the Earthly Globe what Hour it is at any Place in the World, by having the true Hour given at any other Place, and by changing the Degrees of their Difference of Longitude into Hours, according to the Rule above mentioned.

There are also pertaining to the *Celestial* Globe, certain other Circles, which for want of Room, and their multiplicity cannot really be described on the Globe, such are *Almicanters*, or Circles of Altitude, *Azimuths* or vertical Circles, which will be explained in a following Chapter, containing *Terms* and *Definitions*, belonging rather
to

to *Astronomy*, but used occasionally in *Geography*.

*Of the HOUR-CIRCLE, or DIAL PLATE
of the GLOBE.*

BUT since several *Questions* or *Problems* that relate to the Hour cannot be so commodiously resolved by those few Meridians or Hour lines, because every Place on the Globe has its proper Meridian, where the Sun comes at 12 o'Clock, therefore there is a brass Dial Plate invented, and may be fixed at the North or South Pole of the Globe for the use of those who live in each Hemisphere, which may be done with Globes of the following Description; the 24 Hours of which exactly answer to the 24 Hour Circles, that might be drawn on the Globe: Now the Dial being fixed and the Pointer moveable, this answers all the Purposes of having an infinite Number of Hour Circles drawn on the Globe, and fitted to every Spot of the Heavens or the Earth. For the Pointer or Index may be set to the upper 12 o'Clock or Noon of the Place you intend to represent, when the Sun's true Place in the Heavens, or when the Place on the Earth is brought to the Brass Meridian will naturally represent the 24 Hours of every Day in the Year, or in any particular Town or City, as upon
the

the Celestial Globe, the Situation of the Stars for every Hour during the Nutttheme-ron for every Day in the Year. The late Alterations in the Globe taking away this Hour Circle and not answering this Purpose, at least not to every one's Apprehension, is the Reason why Globes of that make are neglected, and those with the old Hour Circle retained, as intelligibly answering the old Uses of the same. The reason of this Alteration was, that they could not so conveniently elevate the South Pole above the Horizon, for those that passed the Line, but to amend this, and yet preserve the Use of Hour Circle, which has had the Approbation of the Learned for so many Ages, Dr. Free contrived to have a Pair of Globes made with an Axis a little larger in Diameter, so as to admit a Drill, by which the Pointer or Hand, was screwed on or off, and the Hour Circle to fixt a Socket or Channel, which slides all round the Meridian, so as to be placed at either Pole, as it happened to be required. [Mr. Carey in the Strand, made the Globes of this sort.]

QUADRANT of ALTITUDE.

THERE belongs to the brazen Meridian, the Quadrant of Altitude, which being turned round the Globe, shews the Almucanters : it represents that or any other
Vertical

Vertical Circle respectively applied to the Body of the Globe, from the *Zenith* to the Horizon.

It is a long narrow Strip of Brass, made thin and pliant to the Body of the Globe, and reaches from the *Zenith* to the Horizon, being divided into 90 Degrees, as being just Equal to the fourth Part of the Circumference of the Globe, whence it takes it's Name of *Quadrant*, being particularly stiled the *Quadrant of Altitude*, from its Use of taking the *Altitude* of any Point of the Globe. And as by it's Length from the *Zenith* to the Horizon, it represents the fourth Part of a Circle, so being fastened on the Top of the *Zenith*, and then moved round the Body of the Globe; by such it's Motion, the several Points thereof will represent the several *Almicanters* between the *Zenith* and the Horizon, the former of which is an Arabic Word, signifying the *Parallels of Altitude*, that may be drawn between them.

But besides the Use of the greater Circles as before related viz. the *Horizon*, *Meridian* the *Equator* and the *Zodiac* or *Ecliptic*, two *Colures* and the two *Tropicks*, and the two *Polar* Circles, the former of which are called *greater*, by being *Con-centrical* to the Globe itself, and dividing it into two *Hemispheres*, or equal parts, the latter
less

less by dividing it into two *unequal* parts : there are usually drawn on the *Terrestrial* Globe other Circles crossing the *Equator* at every ten Degrees, and other Circles running *Parallel* to the *Equator* at every ten Degrees ; the former are called Circles of *Longitude*, the latter *Parallels* of *Latitude* : those crossing the *Equator* shew the *Longitude*, (that is the distance from the first *Meridian* taken at liberty, as was before observed) as the *Parallels* shew the *Latitude* or the *Distance* of Places from the *Equator*.

Besides these, there are usually drawn upon the *Terrestrial* Globe *Rhumbs*, i e Circles crossing one another in some certain Points of the Compass, where there is a vacancy, and representing the several WINDS, or 32 Points of the Compass, set down on the outward rim of the Wooden *Horizon*, both of the *Celestial* and *Terrestrial* Globe : there are lines also in Maps of the World of a globular Form shewing the Variation of the Compass, but the main difference between the two Globes is that on the Surface of the *Celestial* are described the Constellations, and other fixed stars in their due situation, and on the surface of the *Terrestrial*, the several parts of the *Earth* and *Sea* in their due situation.

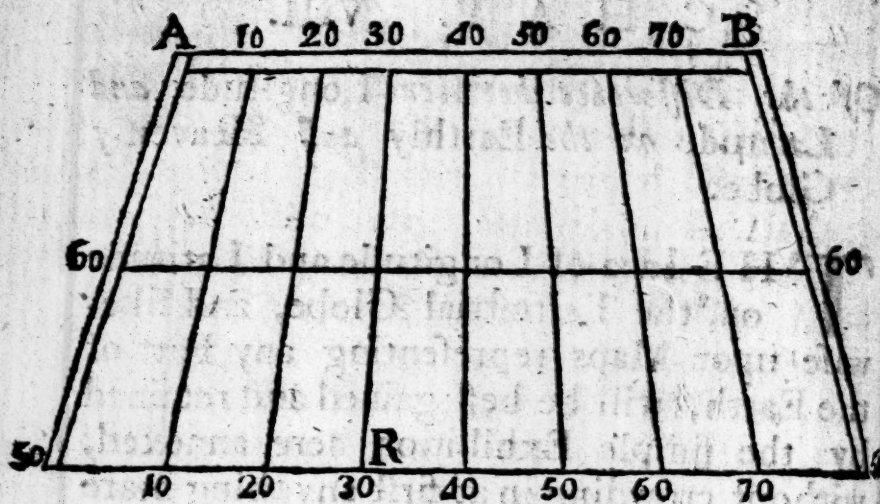
C H A P. VIII.

Of the Difference between Longitude and Latitude on the Earthly and Heavenly Globe.

THE Idea of Longitude and Latitude on the Terrestrial Globe, and likewise upon Maps representing any Part of the Earth, will be best gained and retained by the simple Exhibition here annexed, without crowding in at first any thing more particular.

In Maps, the sides represent the *Meridian*, and there you find the Degrees of *Latitude* marked at the Ends of the *Parallels* to the Equator. On the Bottom and Top you see the Degree, of Longitude: Because the Lines at Bottom as well as that at the Top are *Parrallels* to the Equator, on which the Longitude is measured.

This is exhibited by the following Figure, which discovers at once both Longitude and Latitude:—



Let a blue Thread descend from 30 to the Letter R. and let it represent the Meridian drawn from 30 to the Point R. and let a red Thread proceed from the Parallel of Latitude 50 and end at the Point R; then will the blue Thread shew the Longitude of the Place which R represents, and the red Thread the Latitude of the same—so that its eastern Longitude will be 30, and its Latitude about 50.

In the Affair then of *Longitude* and *Latitude* on the *Terrestrial* Globe, it is apparent that the Equator has the Preference as principal Regulator, it being the Line from which Latitude is reckoned, and on which the Meridians mark the Longitude.

But Longitude and Latitude on the Heavenly Globes are regulated by the Ecliptic, and they bear the same Relation to

to that, as on the Earthly Globe they do to the Equator, which *Idea* is to be quitted here, as it creates some Difficulty, and the Ecliptic substituted in its Room.

For the Lines of Latitude in the Heavenly Globe are all supposed *Parrallels* to the Ecliptic, and the *Lines of Longitude* cut the Ecliptic at right Angles, and all meet in the Poles of the Ecliptic, bearing the same Relation to it, as on the Earthly Globe they bear to the Equator. Thus the Latitude of a Star is its Distance from the Ecliptic, either North or South, measured upon the Line of Longitude—And Longitude of a Star is the Star's place in the Ecliptic, counted from the Point γ . Longitude and Latitude on the Earthly Globe are found originally by Measurement and may be corrected by the same Means, for which Reason, in the Year 1736 the French King sent *Monfieur Maupertuis*, and several other able Mathematicians to measure a Degree of the Meridian at the Polar Circle in Lapland. And also, about the same Time, another party of Mathematicians, compoted of *French* and *Spaniards*, to the Equator, in order to measure another Degree of the Meridian in those Parts, and to deduce from thence the contents of each, that a Comparison might be made between the Equatorial and the Polar

E Degrees

Degrees. These and such kind of Measurements were reduced by Art to a Globe, or Map, which when conceived might be reduced to Science, by the methods just mentioned, with Respect to the Use of Globes and Maps: But independent of these Globes and Maps, or the *Representations* of *Artificial* Circles, the LATITUDE of a PLACE, which regards only the Distance *Northward* or *Southward*, may be known by Observation from the Sun or Stars, by which it will appear, how much your Latitude alters.

Though it is exceeding difficult, on the contrary, to find the *Longitude* of a Place, or the Distance of one Place from another, *eastward* or *westward* by the Sun or Stars, because they are always moving round from East to West, or seemingly so in the vulgar Opinion. For in Reality, it is the Earth's diurnal Motion from West to East, which makes the Stars appear to go from East to West.

The Longitude of a Place has been therefore usually found out and determined by measuring the Distance travelled over on the Earth or Sea, from the West towards the East, supposing you know the Longitude of the Place from whence you first set out: For Example, if it is the *first* MERIDIAN.

Hence

Hence *Longitude* in NAVIGATION is an Arch of the Equator contained between the *first* MERIDIAN, and the Meridian which the Ship is in.

There is one Thing more to be observed before we quit this Subject concerning the different *Extent* of the *Degrees* of each.—Because the Latitude of Places is measured upon their Meridians, which are all of them great Circles, (Wells, Page 4, &c.) all the Degrees of Latitude are equal in Extent one to another, supposed to be 60 Miles, according to which; a Minute of a Degree, i. e. the 60th Part, will be equal to one Mile. Hence the Degrees of Latitude will be turned into Miles by being multiplied by 60; but the Case is different with Respect to *Longitude*, because the Parallels continually decrease towards the Poles, and yet are each of them divided into 360 Degrees. Hence the Degrees of Longitude are not equal in Miles one to another, but vary according to the following Table, from Well's and Cluver's large Geography :—

Lat.	Mil.	Min.		Lat.	Mil.	Min.
0	60	00		4	59	50
1	59	56		5	59	46
2	59	54		6	59	40
3	59	25		7	59	37

[40]

<i>Lat.</i>	<i>Mil.</i>	<i>Min.</i>	<i>Lat.</i>	<i>Mil.</i>	<i>Min.</i>
8	59	24	38	47	16
9	59	10	39	46	36
10	59	00	40	46	00
11	58	52	41	45	16
12	58	40	42	44	36
13	58	28	43	43	52
14	58	12	44	43	08
15	58	00	45	42	24
16	57	40	46	41	40
17	57	20	47	41	00
18	57	04	48	40	08
19	56	44	49	39	20
20	56	24	50	38	32
21	56	00	51	37	44
22	56	36	52	37	00
23	55	12	53	36	00
24	54	48	54	35	26
25	54	24	55	34	24
26	54	00	56	33	32
27	53	28	57	32	40
28	53	00	58	31	48
29	52	28	59	31	00
30	51	56	60	30	00
31	51	24	61	29	04
32	50	52	62	28	08
33	50	20	63	27	12
34	49	44	64	26	16
35	49	08	65	25	20
36	48	32	66	24	24
37	47	56	67	23	28

Lat.	Mil.	Min.	Lat.	Mil.	Min.
68	22	32	80	10	24
69	21	32	81	09	20
70	20	32	82	08	20
71	19	32	83	07	20
72	18	32	84	06	12
73	17	32	85	05	12
74	16	32	86	04	12
75	15	32	87	03	12
76	14	32	88	02	04
77	13	32	89	01	04
78	12	32	90	00	00
79	11	28			

C H A P. IX.

Of Right Ascension, Oblique Ascension, and Ascensional Difference: of the Poetical Rising of the Sun and Stars, according to Hesiod, Homer and Virgil.

THE Term of *Right*, is taken from the Position of the Sphere, which in a right Sphere, supposes the *Equator* to cut the *Horizon* at right Angles: as in an oblique Sphere, it cuts it in Angles less than 90 Degrees: all the Inhabitants of the World except those that live under the

Equator

Equator and the Poles have an oblique Sphere.

The *Right Ascension* of the Sun or any Star is its Distance from the Meridian, which passes through the Point *Aries* counted towards the East, and measured on the Equator—It is the same Thing with Longitude on the Earthly Globe: 'tis found by bringing the Sun's Place to the Equator, and noting what Degree of it, is cut by the Meridian.

Oblique Ascension is that Degree of the Equator, which in an oblique Sphere rises together with the Sun or Stars, considered in its Distance from the Point *Aries*.

Note, that in a direct Sphere all the Heavenly Bodies can only have a *right Ascension* and no *oblique*, because the same Point or Degree of the Equator, that rises with them, comes also to the Meridian with them: but in an *oblique* Sphere, there is a great deal of Difference between the Point that rises with them and the Point that comes with them to the Meridian.

In an *oblique* Sphere therefore, it is found as in the Latitude of London, by observing what is the Extent of an Arch of the *Equinoctial*, which is cut by the *Horizon* at the rising of the Sun or Star, for that is its oblique Ascension.

To find it therefore, rectify your Globe,
and

and bring the Sun's Place down to the Eastern Verge of the Horizon: then observe at what Degree the Horizon cuts the Equator, for that is the *oblique Ascension* required.

The Quantities of the *oblique* and *right* Ascension being thus found, the *Ascensional Difference* is found by subtracting the lesser out of the greater and shews the Distance of the Suns rising or setting from 6 o'Clock, and so of a Star. This Difference is turned into time by reckoning one Hour for every 15 Degrees.

Thus supposing the Suns right Ascension to be by old Stile, Oct. 13, about 208, and his oblique Ascension on that Day in Respect to London, to be about 223; consequently the Ascensional Difference is 15, which answers to one Hour in Time.—Wherefore, the Season of the Year being considered, the Sun rises much about an Hour after 6, i.e. much about 7, and sets much about an Hour before 6, that is; much about 5 o'Clock. The Case is the same with regard to an Example from the new Stile.

As for the Poetical rising of the Stars, they are generally reckoned to be threefold, *Achronical*, which signifies out of time, from α : non and $\chi\rho\acute{\alpha}\nu\omicron\varsigma$ Tempus—*Cosmical*, which signifies ornamental or in order, from $\kappa\acute{o}\sigma\mu\omicron\varsigma$, Mundus or Ordo, *Heliacally* or with the Sun, from $\eta\lambda\iota\omicron\varsigma$ Sol.

A Star *rises Achronically* when it rises just at Sun-set.

A Star *sets Achronically* when it sets with the Sun.

A Star *rises cosmically*, when it rises with the Sun.

A Star *sets cosmically*, when it sets at Sun rising.

Heliacal rising, is when a Star once immersed in the Sun's Beams, gets out of them, so as to be seen at the eastern Verge of the Horizon, just before Sun rising.

Heliacal setting is when a Star once out of the Sun's Beams gets into them, so as to be invisible after Sun set.

Heliacal rising and setting, of the Stars is different, according to their different Magnitudes.

Note, Stars of the first Magnitude are seen at rising and setting, when the Sun is but 12° below the Horizon. Stars of the second Magnitude are not perfectly seen, but when the Sun is 13° below the Horizon. Those of the 3d Degree when he is 14° , of the 4th Degree of Magnitude when he is 15° —of the 5th when he is 16° —of the 6th when he is 17° and the nebulous or small ones not visible unless he is 18 Degrees below the Horizon, viz. about the beginning and ending of 'Twilight.

Sirius the Dog Star rises *Heliacally* about
August

August 26th—The Poets and others formerly used to reckon their *Dies Caniculares*, or Dog Days from the heliacal rising of Sirius: but they did not agree when they ended. Some reckoned them to continue 30 or 40, and others 50 Days; however in this they agreed, that the Weather was very hot and sultry for 5 or 6 Weeks after the rising of Sirius. But as it was then, so it is now a most ridiculous whim: for Sirius does not rise heliacally till near September, tho' our Almanac Makers (for what reason I know not) continue to reckon the beginning of the Dog Days from July the 30th; but however it is plain that Sirius can no ways be charged with bringing this sultry Weather, because 3 or 4000 Years hence, he will not rise heliacally till November, and then perhaps will be charged with bringing as much cold by the same Rule.

C H A P. X.

Of Definitions and Terms, pertaining rather to Astronomy, viz. Almicanars, Azimuths, and Amplitude, compared with Azimuths. Zenith Distance, Meridian Altitude, Declination and Elevation of the Pole.

FOR the measuring of the Altitude or depression of any *Phænomenon* (i. e. its Distance

Distance above or below the Horizon) here are continued Circles to run Parrallel to the Horizon through every Point of the Globe, which grow less and less on each Side of the Horizon as they are remote from it, and at length end in two Points. One of these Points being always over the Vertex or head of the Spectator, is therefore called the Vertical Point, or by a single Arabic Word, the *Zenith*. The other Point, which is diametrically opposite to the former, is called by an Arabic Word the *Nadir*.

(This is illustrated by putting the Globe into a parallel Sphere, when the Pole will represent the *Zenith*.)

The forementioned Parrallel Circles between the Horizon, and the Zenith or Nadir, are called from their Use *Circles* or *Parrallels* of *Altitude*, and by an Arabic Word *Almicantars*.

For denoting what Point of the Horizon any *Phænomenon* is in, or is at least to be referred to, there are conceived also Circles crossing every point of the *Horizon* at right Angles, and all crossing one another in the *Zenith* and *Nadir*. And from their common interfection, being thus in the *Zenith* or Vertical Point, they are stiled *Vertical Circles*, or by an Arabic Word, *Azimuths*. These are represented (as before) by

by putting the Globe into a *Parrallel* Sphere.

Amplitude is an Arch of the Horizon contained between the true East and West Points, and that Degree of the Horizon where the Sun or Stars rise or set, and is called the North or South Amplitude accordingly.

Some reckon *Azimuths* to be in Effect the same as Amplitude, save only with this difference : that whereas Amplitude is only at rising and setting, Azimuth shews the Distance from the East and West Points, at any Time when the Sun or Stars are above the Horizon.

Zenith Distance is the number of Degrees that the Sun or any Star wants of 90 Degrees, i. e. of the Pole, when they are upon the Meridian or greatest height.

Altitude is Height : Meridian Altitude is the greatest Altitude or Height, at Twelve o'Clock.

Declination is the Distance of the Sun or any Star from the Equator, or Equinoctial, counted on the Brazen Meridian in Degrees, and is called North or South, according to the Side of the Equinoctial, on which the Declination is.

Elevation of the Pole is the same as Latitude.

C H A P. XI.

Of Globes and Maps.

THE Globes representing the Heavens and the Earth are distinguished by the Names of *Cælestial*, and *Terrestrial*.

By the *Terrestrial* we are taught the knowledge of the Earth and Sea, with the Situation of Places, their difference in Latitude and Longitude: the Sun's rising or setting: the Length of Days and Nights throughout the Year, and the true distance of one Place from another. This is called *Geography*.

But the *Cælestial* not only teaches us the Sun's rising or setting, but also the rising or setting of the Stars, together with their *Right Ascension* and *oblique*; their *Declination*, *Amplitude*, *Almicantar*, *Azimuth*, *Latitude*, *Longitude* and *Distance* from each other. This is called *Astronomy*.

The Globes for solving Problems may be regulated in the following manner: the *Terrestrial* thus. First let the Cardinal Points of the Globe correspond with the Cardinal Points of the Place where it is set; then move the respective Pole, (viz. the North Pole, if the Latitude given be northern, the South Pole if southern, for in Globes of our Construction, either of the

the Poles may be elevated with the same convenience) above the Horizon, 'till they are so many Degrees of the *Meridian* between the said Pole and the Horizon, as answer to the Latitude of the Place; then find the Sun's Place upon the wooden Horizon, and again upon the Horizon on the Globe, and bring that to the Meridian; fixing the Pointer at the upper 12.

The Globe being thus rectified to the Latitude of the Place given, the Celestial will be fitted for Use, if managed in the same manner, and then will be represented the diurnal Phænomenon at any Place and Time given, and making the Hour Index to point just at the upper 12 on the Hour Circle: for then the Globe will in that Position, actually represent the Position of the Heavens, in respect of the Place given at the Noon or 12 o'Clock of the Day given. And consequently by the due Motion of the Globe, may be represented the Position of the Heavens in respect of the Place given, at any other Part of the Day given, or at any other Time of the Year.

From hence appears the great Advantage of the Hour Circle, which is not to be laid aside, for the Use of a few scraps of loose Paper, easily lost and confused, when the Use of this has been so long commodious and easy to be comprehended.

F

When

When a thing is intelligible and of such utility, mankind must depart from their Understanding to neglect it for one attended with Inconvenience: it is the same folly as *reperit Frugi vesci Glandibus*. An Addition may be made to the Globes, but their Uses are so necessary as not to admit of Subtraction or Diminution. There is an Improvement indeed made to the Globes by that great Master of his Profession Mr. Senex, which promises very useful Discoveries. *George Costard*, M. A. Fellow of Wadham College, and of the Royal Society, late of Twickenham, in a *Scholium* printed about 40 Years ago, upon the 44 Proposition of *Harris* on the Globes (3d Edition) describes this Contrivance of Mr. Senex, in the following Words, "That by making Use of his Methods the rising and settings of the Stars may be found for any Age, past, or to come." In a Globe of this sort the Poles of the diurnal Motion do not enter into the Globes, but are fixed at one end to two Arms of Brass, at the Distance of 23° and $\frac{1}{2}$ from the Poles of the Ecliptic.

These Arms at the other end are strongly fastned to an Iron Axis, which passes thro' the Poles of the Ecliptic, and is made to move round, but with a very stiff motion, so that when it is adjusted to any Point of
the

the Ecliptic, which you desire the Equator may intersect, the diurnal Motion of the Globe on its Axis, will not be able to disturb it.

MR. COSTARD'S DIRECTION.

When it is to be adjusted for any time past or to come, bring the Northern Arm under the Meridian, and fix it there by means of the Brass Nut that is made like the Nut of a Quadrant of Altitude, sliding it into the two Notches of the Brass Arm, and screwing it fast; and when it is thus fixed turn the Globe so about, that the Point of the Ecliptic which you would have the Equator to intersect, may pass under the Point of the brazen Meridian, mark'd $\text{\AA}$. Then holding a Pencil perpendicular to to that Point, and turning the Globe about, it will describe the Equator as it was posited at that Time, and transferring the Pencil to $23\frac{1}{2}$ Degrees, and $66\frac{1}{2}$ Degrees on the brazen Meridian, the Tropics and Polar Circles will be described for the same Time.

By means of this Contrivance the present Longitude of any Star, or the present Position of the Colures may be compared with those of any former Age, or the Time of the Sun's entering the Tropics or Equinoxes be found.

the

The Poetical Risings and settings of the Stars, as was said, are of three Sorts, *Heliacal*, *Cosmical*, and *Achronical*; what the meaning of these Terms is, may be seen Page 80. It will be sufficient for my Purpose to illustrate them by Examples.

But first it will be necessary to premise that Stars of the first Magnitude, according to *Ptolemy*, rise or set *Heliacally* when they are twelve Degrees distant from him, *i. e.* when the Star is rising, the Sun must be depressed in the Perpendicular below the Horizon twelve Degrees. Stars of the second Magnitude require the Sun's Depression to be thirteen. Stars of the fourth Magnitude, fourteen Degrees, and so on.

An Example of an *Heliacal* Rising and Setting we have in *Hesiod*.

Πληϊάδων ἄτλαγενέων ἐπιελλομενάων
Ἄρχεθ' ἀμνητ' ἀρόσιοι δὲ δυσσομενάων

Lib. 2. v. 1.

Again *Virgil* is to be understood as speaking of the *Heliacal* rising of the *Coronæ* in this Line.

Gnosfiæque ardentis decedat Stella Coronæ.

Georg. 1. v. 222.

and of the *Heliacal* Setting of *Sirius*, where he says

Candidus

*Candidus auratis aperit cum Cornibus Annum
Taurus, & averso cedens Canis occidit Astro.*

Geor. 1. v. 217.

Another Example we have in *Hesiod*,
where he advifeth.

————— Δημήτερος ἱερὸν ἄκτῃν
Δινέμεν ἔντ' ἂν πρῶτα φανῇ θένος Ωρίωνος

Lib. 2. v. 215.

And fo again in thefe Lines

Εἴτ' ἂν δ' Ωρίων καὶ Σείριοι ἐς μέσον ἔλθῃ
Οὐρανὸν Ἀρκίῳρον δ' εἰσὶ δὴ ῥέοδοι ἀκίλυος πῶς

Ibid. v. 227.

Examples of a Star's Cosmical Rising
we have in *Virgil*,

*Prætera tam sunt Arctûri Sidera nobis
Hædorumque Dies servandi.*——

Georg. 1. v. 205.

Examples of Stars Setting Cosmically
we have in the same Author.

Ante tibi Eoæ Atlantides abscondantur.

Georg. 1. v. 221.

Haud obscura cadens mittit tibi Signa Bootes.

Ibid. v. 229.

And in *Hesiod*———*Αὐτὰρ ἐπὴν δὴ*
Πληιάδες θυάδες τε τό τε θένος ὠριωνος
Δύνωσιν τότε ἔπειτ' ἀρότου μεμνημένος εἶναι
᾽Ωραίου. Lib. 2. v. 235.

The Achronical Rising or setting of any Star, as was observed, is when it rises or sets at Sun-setting.

An Example of Arcturus rising Achronically we have in *Hesiod*.

Εὐτ' ἂν δ' ἐξήκοντα μετὰ τροπᾶς ἡελίοιο
Χειμέρι' ἐκλείσῃ Ζεὺς ἡμάτα, δὴλ' αὖ τότε αἴσῃ
Ἄρκτουρος προλιπὼν ἱερὸν ῥόον ὠκεανόιο
Πρώτον παμφαίνων ἐπιτέλειαιρ' ἀκροκνέφαιος
 Lib. 2. v. 185.

In the Latitude of 43° North, which does not differ much from *Rome*; *Aldebaran* and *Sirius* set together, and therefore the Lines above quoted:

Eandis auratis aperit cum Cornibus Annum
Taurus, & averso cedens Canis occidit Astro,

may serve for an Example of a Stars Setting Achronically.

DEFINITION.

What is to be understood by the Præcession of the Equinox, may be seen *Page 46.*
 PROBLEM

P R O B L E M I.

To find the Præcession of the Equinox for any given Number of Years.

Let the given Number of Years be 1744, then say by the Golden Rule $72 : 1^{\circ} :: 1774 : \frac{1 \times 1744}{72} = 24^{\circ}$ or $24^{\circ} 13' 20''$ Or the Præcession may be otherwise found by Tables ready calculated for that Purpose. See *Street's Astron. Carolin. or Whiston's Astron. Lectures.*

P R O B L E M II.

Upon a Globe of modern Contrivance to find the Points of Intersection of the Ecliptic and Equinoctial for any Age past or future.

Find the Præcession of the Equinox (Prob. i.) then with the Brass Nut find the Globe so as to make it turn about the Pole of the Ecliptic. (See the Direction) Then along the Ecliptic reckon the Number of Degrees the Præcession was found to be, towards the right Hand, if the Time given be past; and towards the left Hand, if the Time be future. Turn the Globe till the Point so found be brought under the Brass Meridian; then unscrewing the Nut, let the Globe turn about the Poles of the Equinoctial, and the Points of the Ecliptic that come under

der $\text{\AA}$, mark'd on the Brass Meridian, shew the *Vernal* and *Autumnal* Intersections for the Time required.

Example to find the Points of Intersection in the Time of *Hesiod*.

The Age of *Hesiod* is a Point much controverted. It shall here be taken for granted, that he lived about the Year 900 before *Christ*, i. e. 2644, Years ago. The *Præcession* for which is about 36° . Count 36° in the *Ecliptic* from *Cancer* towards the right Hand, and bring that Point under the Brass Meridian; then unscrewing the Nut, and letting the Globe turn about the Poles of the Equinoctial, holding a Pencil at $\text{\AA}$. on the Brass Meridian, will shew the *Vernal Intersection* at that Time to have been in 86° , and the *Autumnal* one in $m\ 60$.

COROLLARY I.

This likewise gives the Position of the Colures for any Time; for the Brass Meridian passing thro' the Equinoctial and Solstitial Points, will pass over all the Stars through which the Colures of that Time passed. And in the present Example we shall find the Position of the Colures agreeing pretty nearly with those of the Ancients, as given by *Eudoxus*. See *Petav. Vranalog.* page 208.

COR

COROLLARY II.

Hence likewise the Position of a Colure, in the Time of any Author, being given, the Age of the Author may be determined. The Method will be seen best by

A N E X A M P L E.

Hipparchus says, that in his Time, the Solstitial Colure pass'd thro' the Star on the Tip of the *Dog's Tail*. Ἐπὶ μὲν ἔν τῃ διὰ τῶν τροπικῶν σημείων καὶ διὰ τῶν πόλων γραφομένου κυκλῶ κείται ἀσὴρ ὃ ἐν ἄκρᾳ τῇ βῆσ' τῆ κοινῆς.

Petau. Vranolog. p. 252.

That Star is in *Bayer* mark'd η , screwing the Nut and turning the Globe about the Poles of the Ecliptic, bring up the Star under the Brass Meridian: Then with a pencil describe the Colure passing thro' the Star, and counting the Number of Degrees on the Ecliptic between this and the Colure drawn on the Globe, you will find them to be 26° . Then (by the Converse of *Prob. 1.*) say $10 : 72 :: 26 : 1878$. the Time when *Hipparchus* lived, i.e. subtracting the Year 1744, in the Year before *Christ* 134.

N. B. On the Globes where Accuracy cannot be expected, the Sun may be supposed in his apparent Motion, to describe a Degree in a Day.

PRO-

PROBLEM III.

The Precession of the Equinox, the Latitude of the Place, and the Time of the Year being given, to find the Rising or Setting of a Star mentioned in any Author.

The Method of doing this will be best seen by

AN EXAMPLE.

HESIOD says (*see before, p. 4.*) that 60 Days after the Winter Solstice, *Arcturus* rose *Achronically*. If *Hesiod* speaks exclusively of the Day of the Solstice itself, it may be the 61st or 62d Day after the Solstice that *Arcturus* rose *Achronically*. Suppose it to be the 62d, the Sun's Motion for that Time (*see Note above*) will be 62° . From the Winter Solstice to the Vernal Equinox are 90° . Therefore the 62d Day after the Solstice the Sun was 28° distant from the Vernal Intersection, which (by *Prob. 2.*) was in 86° ; therefore the Sun's Place at that Time was in $\gamma 8^{\circ}$. Bring the Place thus found to the Meridians, and set the Hour Index to XII. What was the Latitude of the Place where *Hesiod* made the Observation is uncertain, but we may suppose it to be *Ascra*, at the Foot of Mount *Helicon*, whose

whose Latitude in *Ptolemy*, is $37^{\circ} 45'$ say 38° . Elevate the Globe for that Latitude, and we shall find the Sun setting about $5\frac{1}{2}$, and Arcturus rising on the eastern Side of the Horizon.

Another E X A M P L E

Shall be taken from *Pliny*, who says that *Thales* determined the Cosmical Setting of the *Pleiades* to be 21 Days after the Autumnal Equinox.

Let us suppose the Place of observation to be *Miletus*, and its Latitude, according to *Ptolemy* 37° N. *Thales* lived about 600 Yeas before *Christ*, or 2344 Years ago; the Præcession for which, (*Prob. 1.*) is about 33° . Rectify the Globe accordingly, and count 25° from the Autumnal Intersection, which for that time will be $m 4^{\circ}$ and we shall have the Sun's Place $m 29^{\circ}$, which being brought to the edge of the Eastern Horizon, will shew the *Pleiades* setting on the Western.

P R O B L E M IV..

To find the Day of the Sun's entring the Autumnal Equinox, at any Time.

Find the Place of the Autumnal Intersection

section for that Time, then look for that Place on the wooden Horizon, and opposite to it you will find the Day of the Month on which the Sun entered the Autumnal Equinox that Year.

Of M A P S.

Dr. Long observes, that Maps are either general or particular : the Antients sometimes described all Parts of the then known Earth in one general Map : in this View, one of them compares the shape of the Earth to the Leather of a Sling, whose Length exceeds its Breadth : the Length of the then known Parts of the Earth from East to West was considerably greater than from North to South, for which Reason the former of these was called the Longitude, and the other Latitude.

A Map of this Sort was that which *Socrates* shewed to *Alcibiades* when he found him so proud of the Extent of his Estate, which (as *Ælian* relates) was not to be found in *Attica*.

Maps of modern Times are nothing else but sections of the Globe cut asunder, or Projections of the Sphere, which are either *orthographical*, with streight Lines, (from *ὀρθός* right and *γράφω* to describe) or *Stereographical*, where the Representation

tion of the Circles is preserved from *stereos*
a Solid and γραφω to describe.

Harris in his *Elements* of plain and Spherical Trigonometry, speaking of the Astronomical Projection of the Sphere in *Plano*, proves that the Foundation upon which the Orthographic Projection depends, is a supposition of the infinite Distance of the Eye from the Plane upon which the Projection is made, and upon this Projection the generality of Maps is formed: the Spherical Maps are projected with more difficulty, and this inconvenience was removed by introducing Pieces of the Globe, fixed upon Pasteboard as a Segment of a Globe.

Dr. Long observes, in his *Astronomy*, p. 152, that tho' a Spherical Surface, or Part of it, can never be exhibited on a Plane, yet Maps of this Sort, would answer the purpose, but they are not of common Use. These Pieces of the Globe might be projected upon some great Circle, as the Equator, Meridian or Horizon, and be Equatorial, Meridional, or Horizontal.—However in defect of these, the Globe may be represented these several ways, and indeed every Part of it, so as to give an useful Notion of it upon a Plane.

The Projection upon the Meridian is the Form, upon which Maps of the World are now generally drawn in two large Hemispheres

mispheres, and particular Maps upon the Division of these Hemispheres.

The *Equatorial* and *Horizontal* Projections are used upon particular occasions, but not so frequently and generally as the *Meridional*.

It is necessary to observe, that when a small Country is represented in a large Map, the Lines of Longitude and Parallels of Latitude are drawn not merely at every ten Degrees as in the Globe, but sometimes at every 5 Degrees, and some times at every single Degree.

Kingdoms or *Provinces* are divided from one another by a row of single Points, and they are often painted or stained with distinct Colours. — *Cities*, or *great Towns* are made like small Houses, with a little Circle in the middle of them. — *Less Towns* or *Villages* are marked only by such a small Circle. — *Mountains* are imitated in the form of little rising Hillocks. — *Forests* are represented as a Collection of little Trees. *Small Rivers* are described by a single crooked waving Line, and *large Rivers* by such a waving or curling double Line, made strong and black. The *Mouths* of large Rivers where they empty themselves into the Sea, are represented sometimes as Currents of Water, by several Parallel crooked Lines.

I shall add also, that in Terrestrial Globes you

you find the Mariners Compass figured in several Parts, and the Lines of it are drawn out to a great length towards all Parts of the World, on purpofe to fhew, how any Part of the Earth or Sea ftands fituated, with regard to any other Part: and this is called *Bearing*, by which you know what Places bear Eaft, Weft, North or South from the the Place where you are, or at what other intermediate Points of the Compass they lie. The *North* is generally described by a Flower de Luce, and the *Eaft* frequently by a Crofs.

Globes are generally fo, formed as to have the *North Pole* juft before the Face. Then the *Eaft* is at the right Hand, and the *Weft* at the left: and thus usually the Names and Words are written to be read from the *Weft* to the *Eaft*. This is alfo obferved in large Maps, and it fhould be the fame in fmall ones: for when a Map of a Country is drawn in any other Form, fo that the *North* does not lie juft before us, and the *Eaft* to our right Hand, it gives great Confufion to the Learner, and fometimes confounds the Eye and Imagination even of Perfons fkill'd in Geography.

I proceed now to Sea Charts. —

As Maps are drawn to describe particular Countries by Land, fo a Description of Coafts or Shores, and of the Seas for the

Use of Mariners is called a Sea Chart, and it differs from a map chiefly in these Particulars.

1st. A *Map* of the *Land* is full of Names and Marks describing all the Towns, Countries, Rivers, Mountains, &c. but in a *Sea Chart*, there are seldom any Parts of the Land marked or described, besides the Coasts or Shores, and the Sea Ports, the Towns or Cities that border upon the Sea, and the mouths of Rivers.

2d. In a *Map* the Sea is left as an empty Space, except where the Lines of Longitude and Latitude are placed; but in *Sea Charts*, all the Shoals or Sands, and Shallow Waters are marked exactly according to their Shape, as they have been found to lie, in the Sea, by sounding the Depth in every Part of them.

3d. In *Sea Charts* the Meridians are often drawn in streight and parallel Lines, and the Lines of Latitude are also streight Parallels crossing the Meridian at right Angles; this is called *Mercator's Projection*, and the Points of the Compass are frequently repeated and extended thro' the whole Chart, in a multitude of crossing Lines, that whenever the Mariner is upon the Sea, he may know to what Point of the Compass he must steer, or direct his Vessel to carry it towards any particular Port: and that we may be able to see with one cast of

the Eye, the various *Bearings* of any Ports, Coasts, Islands, Capes, &c. towards each other.

4th. The *Sea* is also filled in Sea Charts with various Numbers or Figures, which denote the Depth of Water, and shew how many Fathom deep, the *Sea* is in those Places where the Numbers stand. These are called *Soundings*.

5th. In *Sea Charts* there is not such care taken to place the *North* Parts of the World always directly upright, and before the Face of the Reader: but the Coasts and Countries are usually described in such a Position as may afford the fittest Room to bring in the greatest Variety of Shores and Seas within the Compass of the same *Chart*, whether the East, or West, or North be placed directly before the Reader.

Here let it be noted, that as Geography taken strictly and properly is a Description of Land, so a description of Water or Sea is called *Hydrography*: and as those who describe the Land or Maps are properly called *Geographers*, so those who draw the Sea Charts, are often call'd *Hydrographers*.

The Conclusion of Book 1st.

THE Reader may perceive by the 8th 9th and 10th of the preceeding Chapters, how near the Science of *Geography* approaches to *Astronomy*, the Study of which, to those who have a genius for it, is the sublimest Exercise of the human Understanding, and attended with the noblest Consequences : for besides the regulating the Affairs of this Life, the Religion drawn from it, is the most uniform of any in the World, its Characters are every where intelligible ; there are no various Readings, no Collations of mouldering Manuscripts or of the meaning of *human Words* to find out the Truth, which is universal : for all People behold, and understand the Language of the *Sun Moon* and *Stars*.

It has also the most sovereign Effect upon the *Conscience*, by reason of the most striking instances it affords every Moment of God's tremendous *Omnipresence* in the vast and regular management of the Heavenly Bodies and their punctually appointed Revolutions. The *Comets* which appear now and then, from *other Regions* of *infinite Space*, and the *Planets*, which roll round the *Sun*, and make the *Solar System* perpetually observing their Time and Distance alarmed Mankind, and have taken up their Attention to find out the Cause, which appeared so regular and certain, and gave

the strongest Demonstration of the immediate Interposition of God the Creator, and his never failing Attention to the *Whole* Universe and therefore to every *Part*.

B O O K II. CHAP. I.

Of the Historical Parts of Geography.

I N the Division of the Subject at the beginning of the Book, the *Historical Part* of Geography was divided into *Natural* and *Political*.

The *Natural* comprehends the History of the Earth and Water. The Earth consists of the inland Parts and the Coasts.— The inland Parts are diversified by Plains, Mountains and Forests; such as the Forest of *Harts*, in Germany, which is estimated by the Antients to make a Journey of 61 Days to pass it.

These and what they afford or produce externally or internally, such as *Vintages* and *Mines*, make the subject of the Natural History of the Earth, and these in full and copious Treatises of Geography are generally blended with the Political History of the particular Parts of the Earth as in *Moll's* large Geography; *Gordon's Grammar*, *Salmon*, *Guthrie*, &c. but in the less Treatises these, as well as the watry Parts are spoken of briefly by themselves. We shall now therefore explain promiscuously the other Terms given to the *different* Parts of the Land and Water.

A *Continent* is a vast continued space of Land, containing many Countries and Kingdoms, and consequently not easily discernable to be surrounded with the *Sea*. It is also called the *Main* or Firm Land.

An *Island* is a smaller Tract of Land, which more plainly appears to be (in *Salò*) that is in the *Sea*.

A *Chersonese* or *Peninsula*, is a part of Land which is almost an *Island*, being encompassed with the *Sea*, but where it is join'd to the *Continent* by some narrow Neck of Land, it is called an *Isthmus*.

A *Promontory* or *Cape*, is a mountain, or some considerable Eminence (*Prominens* i.e. shooting out into the *Sea*) If the Land shooting out be level, or hath no considerable rising it is called a *Point*.

All the vast Collection of Salt Water is in general called the *Sea*, which Name also is promiscuously applied to any of its following Parts.

The *Ocean* is the wide open Part of the *Sea*, lying without the Land.

A *Gulf* is an Arm or Branch of the *Sea*, received as it were into the Bosom of the Earth, whence it is called by the Latins *Sinius* and by the Greeks *κολπος* : less *Gulf* are termed *Creeks*, *Bays*, *Roads* &c.

A *Strait* is a narrow Part of the *Sea*, pent up for the most Part between two *Promontories*.

montories, and joining some Gulf to the Ocean.

A *Lake* is a great Collection of Water, which hath no Communication with the Sea but by some River or subterraneous Passages.

A *Morass* differs from a Lake, in that it is not always full of Water, or at least may be drained.

As for *Rocks, Hills, Mountains, Valleys, &c.* as also (the Terms of fresh Water) *Rivers, Brooks, Springs, &c.* they are too well known to need an Explanation.

The Natural History of Geography being spoken to in the foregoing Chapter, we now proceed to the Political History, which is divided into antient and modern.

The most antient division of the Globe among the *Greeks* and *Europeans* was into three Quarters, *Europe, Asia* and *Africa*; the fourth Part, *America* has been discovered and added since. We will give in the first Place a brief Account of these four Parts in General.

C H A P. I.

Of EUROPE in General.

IT cannot be denied that Europe is the least extensive of the four Parts which compose

compose the World: but it must be owned at the same Time, that for its Compass it is greater in Quality, that is to say for its Temperature, Fruitfulness, and the great Number of its Inhabitants: and that this fault, if one may so call it, raises its Merits, and makes it so much the more commendable. If Asia boasts of having seen the first Man made by the very Hands of the Creator of Heaven and Earth, and of being honored by his birth, and of the Presence of the Saviour of the World during the Course of his mortal Life; Europe will say that it is a singular Favor indeed, which it hath received from Eternal Wisdom; but that the Glory of it is borrowed for Asia, which received this Favour by Preference or by good luck. But Europe without such extraordinary kindnesses, creates herself all her Glory; her Sons alone make her illustrious: in reality, it is Europe that has produced the greatest Men, whose memory is rendered Immortal in Antiquity and in the later Ages.

Without stopping at the fabulous Accounts of the Origin of the Name, I shall say that this first Quarter of the World is situated almost entirely in the Temperate Zone, extending itself almost from the 34th Degree of Latitude to the 72d, and from the 9th of Longitude to the 93d, so that

that it may reckon 800 long French Miles from South to North, and 900 in its greatest extent from East to West to all Parts of the World.

It is bordered at the North by the Frozen Sea, at the West by the western Ocean, at the South by the Mediterranean Sea, and at the East by the Archipelago, the Sea of Marmora, the Black Sea, the Limen, the River Don, and by a Line drawn from the most eastern bed of this River to the Gulf of the Frozen Sea, which is between the Streights of *Wiegats*, and the mouth of the River *Obi*.

Its situation causes the Air to be mild and temperate, its Land abounds with all kinds of Corn, Wine, Fruits and Cattle. If one dont see there, frequent Mines of Gold, as in Asia, Africa and America, the the great and rich Commerce which it carries on advantageously repairs this fault.

Among the Rivers in Europe, we must notice the Danube in Hungary, the Wolga, the Don, or Tanais, in Muscovy, the Nieper and the Vistula, in Poland, the Oder, the Elbe and the Rhine in Germany.

The most easy and natuaral division of Europe, is that which is made in dividing it into nine Parts, found three by three, one after another, proceeding from West to East, in the following Order. First there are

are three in the middle, that is to say, *France*, *Germany*, and *Poland*. Three others to the North of these, which are the *British Isles*, *Scandinavia*, and *Muscovy*. The Three last, that is to say, *Spain*, *Italy*, and *Turkey*, in *Europe*, are to their South.

Besides these 9 principal Parts, we may reckon six others, that is to say *Lorraine*, the *French County*, *Savoy*, *Switzerland*, the low *Countries* and *Portugal*: but it appears that these are only subdivided Parts of the principal though the greatest part of them are governed by particular Sovereigns. For example, *Lorraine* and the *French County* which were added formerly to the Empire, were put for this Reason between the Provinces of *Germany*, tho depending upon their particular Sovereigns. *Savoy* may for some Reasons be reckoned among the Provinces of *Italy*. *Switzerland* and the low Countries composed a Part of *Germany* before their Rebellion: for this Reason, rather than to class them among its Frontiers, it appears to me more natural, to leave them in their antient Order, since it is only the jurisdiction which can distinguish them from other Parts of *Germany*, each being governed by its Prince or particular Magistrates.

The Manners of the Europeans are different.

ferent according to the different Countries; but in general they are courageous, generous and tractable. They have not the clownish, proud and uncultivated Nature, which one meets with in the inhabitants of other Parts of the World. They are fair, well-proportioned, agreeable, and nothing which disgusts the Sight, as other People have. Moreover we may add, that the *Indian Women* think themselves much honoured, when they are loved by a white Man, that is an *Européan*.

There are different Kinds of Governments in *Europe*. First the *Monarchic*, which is the most noble and august, as in *Spain*, in *France*, &c. The *Despotic*, as in *Turkey*, and in *Muscovy*. The *Aristocratic*, as the Republic of *Venice* in *Italy*. The *Democratic*, as that of the *Swiss*, and the *United Provinces*. Others which are composed of *Monarchy*, *Aristocracy*, and *Democracy*, as in *Germany*, in *England* and in *Poland*.

The *Monarchic State* is that which is governed by one Sovereign alone.

The *Despotic*, is that where the Monarch has the power of Life and Death over his Subjects, without any other form of Process.

The *Aristocratic*, is that which is governed by the Nobles, or by the chief People of the State.

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The *Democratic* is that where Rulers are chosen from among the People.

Many kinds of Religion are followed in *Europe*, different Doctrines from that of the *Romish Church*.

Five principle ones only can be remarked, the others being only Branches or Sects of these.

The most ancient is what is called the *Catholic, Apostolic, and Romish*, and which is established in *Spain, France, Italy, a Part of Germany, Poland, &c.*

The *Mahometan*, which was invented and taught in the Year 625, by *Mahomet*, an *Arabian*, and which is scrupulously observed by the *Turks*, and by some of their Subjects in *Europe*.

The *Grecian*, which separated itself from the *Roman Church* to follow the Schism which *Photius* a false Patriarch of *Constantinople* had preached about 200 Years before, and which renewed some points of the antient Errors of *Arius, Nestorius, Eutichus, Dioscorus*, and many other Arch-heretics. These Errors have given birth to different Sects, some of which are followed in the Dominions of the Grand Signior, in *Muscovy*, and some Lands dependant on *Poland*.

The *Lutheran*, that is to say the Doctrine preached by *Martin Luther*, who was

was an Apostate Monk, in 1517, which is professed in lower *Germany*, in *Sweden*, in *Denmark*, &c. and which is divided into many different Sects..

And last the *Calvinist*, which *John Calvin*, composed from the Errors of *Wiclef*, from *Hus*, and other Arch-heretics, commonly called Sacramentaries. It is composed of almost an infinite Number of different Sects, particularly in *England*, but these are not of the *Church* of *England*, which is of another Form; it is professed in this Kingdom, in *Holland*, and some Parts of *France*, *Germany*, and *Poland*, &c.

CH A P. III.

Of A S I A in General.

THIS Part of the ancient World is the most eastern and extensive of those Parts which compose it. The Author of Nature has chosen it by his special Grace, among others for the place of the first Man's Creation. It has been the Magazine, if we may so say, where this great Architect has made his other Works. It has the Advantage of having served as an holy Temple, where this Almighty Father has placed his divine Oracles. It has furnished Matter upon which God himself imprinted the holy Characters of

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his divine Commandments, to give them to *Moses*. In short it has had the Glory of the Birth of the Saviour of the World, to have possessed his divine Person during the Course of his Life, having been as a new Temple, where this *God* and *Man* compleated the Mysteries of our Redemption, after having instituted there those of the true and only Religion.

I say moreover, that it is from *Asia* that all the Colonies have arisen, which peopled the other Parts of the Earth, and that it has been the Residence of the most antient and most powerful Monarchies in the World. For after the Deluge, it saw the rise of the Empire of the *Assyrians*, by *Belus* or *Ninus*, till *Sardanapalus*. It passed afterwards to the *Medes* by *Arbaces* till *Astyages*; to the *Persians* by *Cyrus*, till *Darius*, and to the *Greeks* by *Alexander* the Great. The *Parthians* established in it also a very powerful Empire, which ended under *Alexander Severus*, and returned to the *Persians*, till it was as it were buried by the *Turks* and *Saracens*: but it raised itself in the beginning of the last Age, in the Person of *Ismael Sophi*, augmented in the reign of the great *Scha Abbas*, and kept up very advantageously some time after but it is but a Part of it, and this vast Empire

pire of *Asia*, is at present divided among many Sovereigns.

Asia extends from the 64th. Degree of Longitude, to the *Isthmus* of *Sués*, to the 184th. or according to the most modern, to the 194th. and from the first Degree of Latitude to the $71\frac{1}{2}$. without comprehending the Islands dependant on it, and which extend towards the South to the 11th. Degree of Southern Latitude. So that it is from East to West almost 2000 Leagues, and in its widest Extent from South to North, almost 1400 Leagues. By this Remark, we may see that it occupies a great Part of the Torrid Zone, all the Southern Temperate, and advances 5 Degrees into the Frigid.

It is bounded at the North by the Northern or *Scythian* Ocean, on the East by the Sea of *Kaimachites*, and that of *China*: at the South by the *Indian* and *Arabian* Seas; at the West by the *Red Sea*, the *Isthmus* of *Sués*, the *Archipelago*, the Sea of *Marmora*, the *Black Sea*, the Sea *Delle Zabache*; a Part of the *Don*, and a line drawn from its most Eastern curvature, to the Gulf which is between the Mouth of the River *Oby*, and the Streight of *Weigatz* in the *Frozen Sea*.

After the Example of modern Geographers, I shall divide *Asia* into six principal

Parts, which are *Turkey in Asia, Persia, India, China, Grand-Tartary*, and the *dependant Isles*. The first four are towards the South, in this Order proceeding from the West to the East. The fifth is situated at the North of them, and the Islands are scattered in the Ocean into 5 different Cantons, that is to say, the Islands of *Japan*, the *Phillipine Isles*, the *Moluccas*, the *Sunda-Isles*, the *Maldives*, to which I shall add the Island of *Ceylon*.

C H A P. IV.

Of AFRICA, in General.

THIS Part of the antient World is the most Southerly of those which compose it, and the greatest Peninsula in the Universe. Most Authors differ in their Opinion of the Origin of its Name. Some make it come from *Aset*, the Son or Companion of *Hercules the Lybian*. Another will have it derived from the Name of the King of *Arabia*, called *Melec Ifriqui*, which Strangers have corrupted, changing the I into A. *Josephus* assures us that the Word *Africa* comes from *Afer*, Grand-son of *Abraham*. In short there are yet many Opinions, which it would be too long to relate, and which are as doubtful as this.

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It extends from the 35th. Degree of Northern Latitude, to the 35th. of Southern, and from the 3d. Degree of Longitude, to the 83d. so that it has almost 1600 Miles in Length, at the Top of the River *Niger*, towards half under the Equator, and lessens as much more as it advances towards the South. It has almost 1400 Miles in Length towards the Lake *Zairus*, and about 600 at the Streight of *Guinea*. So that we reckon it has more than 5000 Niles on its Sides.

It is bordered on the North by the *Mediterranean Sea*, on the East by the Isthmus of *Sués*, the *Red Sea*, and the *Eastern Ocean*; on the South by the *Æthiopian Sea*, and on the West by the *Atlantic*.

Its situation shews that the Equator passes exactly in the Middle, and that it is two-thirds in the Torrid Zone, which causes the Air there to be extremely hot, besides that the Middle of the Country is full of shining Sands, which reflect the Rays of the Sun with a burning and insupportable Heat. All this sandy Ground is uncultivated, and very little inhabited, as well on account of its Sterility, as for its Scarcity of Water; and moreover because a great Quantity of wild Beasts, and many Monsters of different Forms are met with there, which devour Men. Among these
Animals,

Animals, we may remark the *Lion*, the *Leopard*, the *Pantber*, the *Elephant*, the *Monkey*, the *Horse*, the *Wild Afs*, the *Sea-Horse*, and *Ox*, which are unknown to us. The beasts there, are very good, and commonly large and fat. Many scarce and excellent Fruits are gathered there, and very wholesome Plants, among which are found some so poisonous, as the *Addad*, that if a person takes but one Ounce of its distilled Water, it causes Death in the Space of an Hour. There are also in many Parts, Mines of Gold, Silver, and some of Salt.

Its most considerable Rivers are the *Nile*, and the *Niger*. People have improperly placed the Source of the first, in the Mountains of *Beth*, or the Moon, towards the 10th. Degree of Southern Latitude, but we no longer doubt now that it is in the Kingdom of *Goyame* in *Abyssinia*, towards the 12th. Degree of northern Latitude; so that it has more than 300 Miles in Length less than the antients gave it. It passes over *Abyssinia*, *Nubia*, and *Egypt*, from South to North, and then discharges itself into the *Mediterranean Sea*. Both may be seen in the Map. The *Niger* is so called from a Lake of the same Name in the Kingdom of *Damut*, dependant formerly upon *Abyssinia*; it runs from South
to

to North, between the Lands of this Empire and the Kingdom of *Congo*, then watering the Kingdom of *Boino*, it enters into the Lake of the same Name, over which it passes, and crosses afterwards all the Country of the Negroes, from East to West, forming the Isle which the *Arabians* call *Nub*, between *Gangara* and *Zafara*, and the Lake of *Guard* in the Kingdom of the *Agades*, then before it discharges itself into the Ocean, it divides itself into many Branches, the most remarkable of which are *Rio grande* towards the South, *Gambia* in the Middle, and *Senega* towards the North. The most western Point of the Island, which these two last Form, is that which is called *Cape Verd*.

Africa may be divided into eight principal Parts, which are *Egypt*, *Barbary*, *Biledulgerid*, *Zara*, or the *Desert*, *Nigritia*, *Guinea*, *Ethiopia*, *Nubia*, to which may be added as a ninth Part, the Islands which depend on it.

Tho' this Country appears to produce only Barbarians and Monsters, it has nevertheless lighted up the greatest Torches, and the strongest Defenders of the Church, as *Tertullian*, *St. Cyprian*, *St. Austin*, and many others. Among the great Chiefs of Antiquity, we may remark *Hannibal*. The people are composed of *Africans* by Birth,

Birth, and *Arabians*. They are in general naturally proud and cruel, and have a robust and strong Constitution. They dont all dwell in the Towns, but many of them reside in Deserts, under Huts, and there are others who are always wandering.

Since the Children of *Noah*, *Africa* has had different Kings and Princes. The *Romans* made themselves Masters of one Part, and after having destroyed *Carthage*, and expelled the Kings, they sent Colonies there, till *Genferic*, King of the *Wandalis*, drove them from it, and made himself absolute Master. This Tyrant exereised in it a thousand unheard of Cruelties, particularly towards the Priests and Orthodoxes. • He and his Successors maintained their Empire for nearly 130 Years, till *Belisarius*, General of *Justinian* the Emperor's Army, reconquered that northern Part over *Gilimer*, whom he took Prisoner after the Reduction of *Carthage*. The *Arabians* and *Saracens* invaded it in their turn under the Government of *Honorius*, during which, the Affairs of the *Romans* began to fall into Decay. Since that Time the Turks have conquered some of its Kingdoms, of which one Part is subject or tributary to them. Other Kings or particular Sovereigns possess the better Part; and the Kings of
Spain.

Spain and *Portugal* hold there some Places upon its Coasts.

The *Africans* have always been Idolaters, and worshipped the Stars, the Fire, &c. The Queen of *Sheba*, who visited *Solomon*, taught them the Religion of the *Jews*. Since that they have received the Light of the Gospel, from the Eunuch of Queen *Candace*, who was baptised by *St. Philip*. The Church suffered there, many Persecutions by the *Manichéens*, *Donatists*, *Arriens*, *Pelagians*, and other Hereticks under the Empire of *Dioclesian* and *Julian* the Apostate. At this Time there are to be met with *Mahometans*, *Idolaters*, which have neither Faith, nor Law, *Jews* and *Christians*, which are of two Sorts. The greatest Part of the *Abyssinians* and other *Ethiopians*, are Scismatic *Greeks*. The Subjects of the Kings of *Spain* and *Portugal* are *Roman Catholics*.

The *Portuguese*, were the first Discoverers among the Europeans, of the Coasts of *Africa* near the Ocean: they say, that they have made the Tour from the Time of the *Ptolemies* Kings of *Egypt*, and that *Solomon* sent Fleets into *Ophir*, which having been equipped in the *Red Sea*, returned to *Joppa* by the *Mediterranean*.

It is clear that the Antients never well understood *Africa*, except that which is

on the Side of the *Mediterranean*: they only spoke of it by Conjecture, or hear-say; all that is above the Sources of the *Nile* and the Mountains of the Moon was unknown to them, and has been discovered about 200 Years since, under an idea that all the Countries situated in the *Torrid Zone* were uninhabitable on account of the excessive Heat of the Sun. This false Prejudice has always hindered them from labouring after a Discovery within this great Peninsula, nevertheless it is entirely inhabited except some sandy Deserts.

The *Romans* divided what they possessed in *Africa* into six Parts, which was 1st. *Proconsular Africa*, 2dly. *Africa proper*, where *Carthage* and *Tunis* were, 3dly *Consular Numidia*, where was the Town of *Cirtes*, now *Constantine*; 4thly. *Sysacene*, a Part of *Africa proper*, where was the Town of *Adramyttium*, in the Presidential Province of *Tripoli*; 5thly. *Imperial Mauritania* or *Cæsarea*, which contained the Kingdoms of *Algiers* and *Telesin*; 6thly. *Sitifencian* and *Tirgitanian Mauritania*, where the Kingdoms of *Fez* and *Morocco* were, they moreover had Possession of *Egypt*, which might have made a seventh Part; *Barbary* and *Egypt* however are but the 10th. Part of *Africa*.

Of

The Political HISTORY of the EARTH.

Of AMERICA in General.

IT appears that the Antients knew this vast Country, and that they have left some Idea of it, in the Description they have made of the *Atlantic Isle*, which they have described to us as greater than *Asia* and *Africa* taken together.

Plato and some others have said that it was situated near the Streights of *Gibraltar*, and that its Kings formerly commanded some Part of *Europe* and *Africa*, but that a terrible Earthquake following with a great Inundation, it was swallowed up.

Aristotle in speaking of the Wonders of the World, says that some Pilots of *Carthage*, having discovered a great Island very fertile in every thing, on the other Side of the *Pillars of Hercules*, many Families of this Republick, quitted their Country, to go there to establish themselves, but the Magistrates of *Carthage* having given strict Orders that no one should go there, it was neglected in such a Manner, that it continued unknown to us, till the Year 1492, or rather 1493. For *Christopher Columbus* a *Genoese*, who discovered it, at the Order of *Ferdinand* King of *Arragon*, did not pass the *Antillas* in his first Voyage, and did not touch *Terra Firma* but in the second, which he did the following Year.

Let us stop here to consider what a valuable thing, *Tradition* is, when preserved in the Hands of *Philosophers*, since what *they believed* turned out to *Posterity* to be a *Fact*: for *America* is now discovered, and bears as *Aristotle* described it, the distinguishing Form of a great Island. If it be true as most Authors have agreed, that the *Chinese* and *Aegyptians* were originally the same People, the *Chinese* might communicate this Knowledge to the *Aegyptians*, and they to the *Greeks*. If this be probable, it favours the Opinion of a Passage to *America* on the Side of *China*.

This Part of the World received its Name from *Americus Vesputius* a *Florentine*, who was sent there since *Colmmbus*, by *Don Emanuel* King of *Portugal*. It is also called the new World, because it has not been long known; sometimes the *West-Indies* on Account of the Gold, which is found there as in the *East-Indies*: as if all the Countries from whence Gold is procured, were to bear the Name of *India*, which is that of a River. Others say that it is because they were discovered at the same Time, but all that is not a fundamental Reason in my Opinion.

America extends from the 63d. Degree of northern Latitude, to *Hudson's Streights* as far as that of *Magellan*, under the 54th of
of

of southe n, and from *Agubela del Gato*, above the *Island of California*, under the 24th. Degree of Longitude, to the most distant Point of the *Brazils*.

Towards the North it is bordered by the Sea, which separates it from *Greenland*, by *Hudson's Bay*, the *Christian Sea*, &c. at the East by the *Atlantic Ocean*, at the South, by the Streights of *Magellan*, which separate it from *Terra del Fuego*, and at the West by the *Pacific* or *Southern Ocean*.

Its Situation in three different Zones causes a Difference in the Air, according to the different Climates, and has Heat or Cold in proportion to the Situation of each Country. The Soil is likewise different, and produces many Sorts of Corn and Fruits, which we know, and others which we do not know, as the *Yuca*, with which they make Bread. So much Gold and Silver is found in different Places, that it attracts the Commerce of the greatest Part of the Européans. One may see there almost all kinds of fierce and savage Animals, as well as domestic ones.

Among others, three great Rivers are to be remarked : the first and the greatest is that of the *Amazons*. The second is that of *Plata* or *Paraguay*, all of them flowing towards the South. The third is the River of *St. Laurence*, which traverses all *Canada*

in the northern Part. These two Parts are two great Peninsulas, which are only joined by the Isthmus of *Panama*, about 88 French Leagues wide, and containing many great Provinces.

The *Americans* are in general pretty ingenious, but proud and revengeful. Tho' they are swift and robust, they are not courageous. Those who dont frequent the Europeans are wild, and men eaters, which were found by Captain Cook, in his Voyages, in some Parts to be a real Fact. They live without a thought of Futurity, and traffic with nobody. Others which have Commerce with the People of *Europe*, or who are subject to them, are humanized, and traffic freely with them. Some of these Savages go quite naked; others paint their Bodies with different Colours, and others cover themselves with the Skins of Beasts. They dance very much, and sleep upon Beds of Cotton suspended in the Air. Their common Weapons are Bows and Arrows, and different Sorts of Clubs. Some have at present short Guns, and other Arms, as we have in *Europe*. Before the Arrival of the *Spaniards*, *America* had Kings like those of *Mexico*, *Culhuacan*, *Azcapuzalco*, *Tezeuco*, &c. the *Ingas* of *Peru*, and *Caciques* or Captains, which they chose for their Commander. Accounts tell Wonders of *Motecuma*, last King of *Mexico*. Now the King of *Spain* is

Master of a great Part of this new World, and holds there two Viceroyes, one at *Lima* for the southern Part, the other at *Mexico* for the northern. The *French* King gives Laws to the best Part of *Canada*, which is commonly called *New France*, and keeps there a Viceroy or Governor in the City of *Quebec*, now in the Hands of the English, by the Victory of *General Wolfe*, which is situated upon the great River *St. Laurence*. The Kings of *Portugal*, *England*, *Denmark*, and the *Dutch* possess also each their part of it, and the inner Part of the Country is still in the Power of the Original People, of whom some chuse among them Captains, to give them Laws, and lead them out to War. Others live indiscriminately without a Conductor, having neither Law, nor fixed Residence.

Those who have preserved their Liberty are Idolaters; some of them adore a God Creator of all things: others pay the same Worship to the Sun, Moon, Fire and other things which they have selected as Objects of their Worship. The *Spaniards*, the *French* and the *Portuguese* exercise the *Catholic* Religion, *Apostolic* and *Roman*, and almost all the people who are their Subjects, follow it also, at least in Appearance; but in reality it is only pure Grimace, and we find very few, not to say any, who can assign a Reason for their

Belief. The other Parts of *Europe* who have Dominions, exercise there, their particular Religion.

The *Spaniards* have six Archbishops, viz. at *Mexico* in the Province of the same Name; at *Lima* and at *Plata* in *Peru*; at *St. Domingo* in the *Spanish* Island; and at *Santa Fé de Bogota* in *Terra Firma*. Thirty Bishopricks are observable in their States. There are two Universities, one at *Mexico*, another at *Lima*. And you may reckon more than 400 Convents. The *French* have a Bishop at *Quebec* in *New France*, and the *Portuguese* an Archbishop at *St. Salvador* in the *Brazils*. To preserve Episcopacy, the English have lately created in their Dominions a Bishop of *Connecticut*.

America is commonly divided into North and South. *North America* is a great Peninsula, which extends between the 29^d. and 34⁸th. Degree of Longitude, from the *Cape Coquibica* under the 12th and 30 Minutes of northern Latitude, as far as the *Streights* of *Magellan*, under the 54th. of southern. So that there may be 320 Leagues in its greatest Length from North to South, and 1140 in its greatest Length from East to West, and near 5000 in Circumference.

It has on the North and at the East, the *North Sea*, at the South the *Magellan*, and at the West, the *Pacific* or *South Sea*.

Norib-

North America is according to the Opinion of some a great Peninsula, of which one dont exactly know neither the Extent nor the Bounds of the Western Coast, or the Northern, towards which others believe that it is joined to the Northern Lands.

The *Dutch* place its Extent from the *Streights of Anian*, under the 195th. Degree of Longitude of the first Meridian of the *Azores*; that is to say about the 185th. of the *Canaries*, to the 340th, and from the Isthmus of *Panama*, under the 7th. Degree 30 Minutes of Latitude, till near the 63d. of which there is no great Certainty.

*The Conclusion of the Second Book,
with a Word of Advice, concerning
the Manner of studying Geography
and the Treatise of Dyonisius.*

AFTER learning the Rudiments and Description of Countries, the best Method to facilitate the Progress in *Geography* will be by the *Inspection* of good Maps, where the Eye helps the Memory and leaves a stronger Impression on the Mind.

The

The Descriptive Part of any Thing, which they wanted to remember, was by the Antients for Memory's Sake, conveyed in Verse. The Laws of some Countries being short and clear, were preserved in the same Manner, but this would be too difficult a Task to perform here, as the Statute Laws of England consist of so many Volumes in Folio.

Thus the *Cretans* ordered the Sons of their Free Citizens to learn their Laws, which were set to Music, that they might take Pleasure from reading the Poems, and more easily retain them in their Memory: and for this Purpose lest, if they should commit any thing contrary to the Laws, they might not have an opportunity of excusing themselves thro' Ignorance. The second Instruction was that they should learn Hymns or Songs in Honor of their Gods, and lastly the Praises of their Heroes. (*Ælian. Var. Hist.*)

Geography appears very well in Verse as is evident from Homer's Description of Greece, translated into English by Mr. Pope; and *Kirgils* Account of the People of Italy by Mr. Pitt, Dryden, and others, which are very pleasing Poems. The Greek Geographers in Verse, were published by Dr. Hudson, the learned Keeper of the Bodlei Library. This Author
Dyonisius

Dyonisius was selected from amongst them by Dr. *Wells*, and adapted for our Use, by the Addition of modern Geography, which he composed in Greek Verse like the Author's, for the Use of the upper Part of Westminster School, dedicating it to Dr. *Knipe*, the then Head Master, and Successor of the famous *Busby*, The Stile is like that of *Homer*, consisting chiefly of the Ionic Dialect, but comprehending occasionally the Rest.

This Edition was accompanied with little Maps, and this Translation in English, if the Price of the Book would have permitted the Expence, should have had the same Addition. But as they were the Out-lines and Sketches upon a less Scale of his greater Maps, which belonged to his own System of Geography, they will not be missed by those who have that Sett in their Possession. There is another Work of Dr. *Wells* relating to the Science of Geography of Use chiefly to *Divines*, and those that study the N. Test. which is very scarce and curious, and should, if there was such an Order in England for preserving of old Books, as *Censuræ Literarum Angliæ* be reprinted, he calls it The Journeyings of Christ and his Apostles, which he describes with so much *Piety*,
that

that you would imagine he would have kissed *every Step* where our Saviour trod.

It is adorned with Cuts and accurate Maps, and was dedicated to Queen *Anne*, whose Reign is famous not only for the glorious *War* she maintained with the Consent of all her Subjects, (and those not *bribed* or *biassed*,) for the Defence of the *Liberties*: of *Europe*, but for the great Care she took of *Learning*, and *learned Men*, howsoever different in State, Title or Denomination.

Men thus distinguished, were not preferred only here and there one, but every where, by their several Merits. She professed on one of her *Medals*, that she had a Heart *entirely* English, and therefore not capable of *double Dealing*, and so distributed her *Philosophers*, *Divines* and *Statesmen*, in such conspicuous Points of View, that their *Abilities* might be discerned before they were called to *Action*, and assembled by her Royal Summons: when they rose together like a *Constellation* and enlightened and adorned her Reign. So that *England* in the Time of this *wise and good Princess*, was as much the Admiration of Europe for Men of *Parts* and *Learning*, as for the prodigious Victories obtained by her Arms.

F I N I S.

The EDITORS Apology for printing the
Translation of DYONISIUS, by Subscription
taken from Mr. *Woty's* ODE upon that
Subject.

ALL hail SUBSCRIPTION! 'tis to thee we owe
The plentuous Fruits which from Invention
grow.

Without thy Aid, full oft the *toiling Bard*
Would lose unpitied his deserv'd Reward,
And *Genius* languish in the Cave of Night
Nor once look forward to the Dawn of Light.
At thy Approach the melancholy Thought,
That Poverty should cramp the End we fought
at once retires, and Joy serene succeeds,
Sure of a Premium to reward our Deeds.
This other Comfort from thy source we draw,
It keeps the snarling Critics all in Awe;
Deride they may, since from the wiser few,
We thus draw Gain and Reputation too.

SUBSCRIPTION hail! nor let the Tongue of Fame
Mutter one slanderous Accent o'er thy Name,
Let her not rashly stigmatize the *Mode*
since greater far than I pursue this Road;
In Point of Meaness—who deserves the Sneer
The *begging Poet*, or the *begging Peer*?

INTRODUCTORY ODE.

Tho' hard, much harder is the Poets Fate,
Not meaner he than *Mendicants of State*,
Say gentle Reader, where's the mighty Crime,
In this Petition from a Man of Rhyme?
One trifling difference worthy some Regard
Exists between the *Candidate* and *Bard*:
'Tis only this—the one forgets his Word,
And one remembers *Benefits conferr'd*.

SUBSCRIPTION hail! again! from thee alone
What schemes imperfect have most perfect grown!
From thy supports what Hospitals arise!
Thou hearst the Widow's and the Orphans Cries,
Bid'st the rough Storm of rude Misfortune cease
And Sorrow's Bed, become a Bed of Peace.

SUBSCRIPTION once more hail!—hail and farewell,
Tho' on thy Praise much longer could I dwell.
Without thy Aid, what Works of fame are crof'd,
E'en here the Worlds Description had been lost.
Or *Dionysius* been to Greece confin'd,
Who trac'd the endless Mansions of Mankind,
And the whole Universe together join'd.

D Y O N I S U S,

TRANSLATED INTO

B L A N K V E R S E,

FROM THE

Greek of Dr. Wells's Edition,

CONTAINING

Both Antient and Modern Geography.

BY *B. D. F R E E*, M. A.

And a STUDENT of LINCOLN'S-INN.

C H A P. I.

BRITISH



Of the General Division of the ^{whole} World.

EARTH to describe, and wide extended
Seas,

The Rivers, Cities, and unnumber'd Tribes
Of Men, that people and divide the same,
I mention first, the Ocean flowing wide
Wherein the Earth is scatter'd here and there.

If in the Sea a larger Tract of Earth
Expands itself, Men call it *Continent*:

But, if a smaller Portion should appear,

As swimming on the Waves, 'tis call'd an *Isle*

FIRST

FIRST then the Continents are chiefly four,
 The *Antient, Modern* : and the *North, and South*,
 These to their own respective Quarters tend,
 And between both, the Antient and the New,
 The latter by another Name is call'd
America ; or otherwise again
 The seat of *Indians*, dwelling to the *West*.
 Immense its Tract, which goes from Pole to Pole.
 But the old Continent more near the Sun
 Men have again divided in three Parts.
 The first, of *Europe*, long retains the Name ;
 The next is *Asia* : *Africa*'s the last.
 But, by one Name, they've call'd each Part, *unknown*
 I mean the Southern and the Northern Bounds,
 So little were discover'd of those Coasts.
 Now, many say, that of the Universe
 The Continents are four ; in order thns :
 The first of *Europe* : *Asia* the next :
Lybia the third : and last *America* :
 The Earth's Division such : the first and chief.



C H A P. II.

Of the general Division of the Sea.

BUT every where the restless *Ocean* rolls :
 One in itself, tho' known by various Names,
 What tow' rds the South extends, is *Southern* term'd.
 Thence to the North, 'tis nam'd the *Northern Sea*,
 By some, the *frozen* or *Saturnian* call'd :
 By others, *Dead* : because the Sun but weak

Faintly

Faintly, or rarely shines upon this Sea,
 And in dark Clouds for ever thick appears.
 Between America, and Europe's Bounds,
 Where Lybia reaches : by another Name
 'Tis call'd the *Atlantic* : on the other Side
 Between America, and Asia's Bounds
 'Tis call'd the great *Pacific* : in that Part
 It's briny Waves a settled Calm o'er spreads.
 But the vast Course of the Atlantic Sea
 Is by another Name, th' *Hesperian* call'd,
 And with a loud and far resounding Noise
 Near Western Lybia and Europe rolls.
 Again, 'tis *Northern*, when its swelling Waves
 Reach to America's more northern Parts.
 But, when the peaceful Waters of this Sea
 Reach to the southern Side, 'tis *southern* call'd :
 If tow'ards the Eastern Shore of Asia's Realms,
 It bears the *Eastern* Ocean for its Name.
 The Ocean thus surrounding the whole Earth,
 In different Parts, does different Names receive.



C H A P. III.

Of the Chief Bays of the Sea.

TH E Ocean thus discharging on the Land,
 Has many small, and seven larger *Bays* :
 The first, and much superior to the rest.
 From the west Ocean flows extending long.
 Tow'ards East and North, to Asia's distant Land,
 To the left Side of Europe passing by,

And

And leaving Afric to the tight, turns up
Towards the North, near Asia's fertile Shore:
'Tis for this Reason call'd the *Midland Sea*.

FROM the Saturnian Sea the next is thrown,
Tow'rds East and North, between the northern
Tracts

Of Europe, which they name the *Codan Bay*
And by the Moderns term'd the *Baltic Sea*.

THEN from the fouthern Sea, the third and
fourth.

Th' *Arabian* one, which passes thro' the midst
Of Lybia and Arabia, but the next
By Name the *Persian*, reaches near the East.

THEN the *Gangetic* murmurs tow'rds the East.
Call'd by the Moderns of *Bengal* the Bay.

OF others, near America, which lie
One tow'rds the Mexicanian Land extends,
And therefore nam'd of *Mexico* the Bay.
The other *Hudson's*, upwards to the North:
As far extending in th' *Hudsonian Streights*.
So many are the Oceans larger Bays.
(The *Caspian Sea's* a wide extended Lake,)
Call'd the *Hercanian* by another Name,
Detatch'd entirely from the Ocean's Waves:
But by the Antients falsely term a Bay.
The others are too numerous to relate.

C H A P. IV.

A Description of the Mediteranean Sea.

NOW of the *Midland* Sea I'll tell the Course
 And from the western Ocean first begin
 Where the *Herculean Pillars*, near its Bounds
 Tow'rd distant *Gades*, (as a Wonder) stand.
 The one in Europe, *Cape* takes for Name;
 The other opposite the *Lybian Shore*
 To save Confusion *Abyle* is call'd.
 Between these Pillars there extends a Streight
 Call'd the *Gadinian*: which again is nam'd
 Th' *Herculean*: but now the same is term'd
Gibraltar, from the Spanish Fortrefs near.
 For sailing, this all other Streights excels:
 The Sailors call it by Distinction, *Streights*.
 Then to the East, th' *Iberian* Sea extends;
 The *Gallic* Waves receive it in their Course,
 And call it, the *Massilian*; for there
 Learned *Marseilles* presents its winding Port.

NEXT the *Ligustian* Sea appears to View,
 Where the *Ligurians* *Genoa's* City hold,
 The *Sea of Genoa* now by Moderns call'd.
 Tow'rd *Corfica* break forth the briny Waves.
 Then the *Sardinian* with a hollow Sound.
 Then the *Tyrrhenian* Ocean bellows forth,
 Which, by another Name is *Thuscan* call'd.
 Next, rising from the Sea of *Sicily*,
 The *Adriatic* in a winding Course
 Far to the East, and northern Parts extends,
 Where

Where th' *Adriatic* Gulf stands full to view
 Near noble Venice Sea surrounded Walls,
 And gives the *Gulf of Venice* for its Name :
 The Antients call'd it the *Ionian* Sea.
 The *Adriatic* Sea gives Rise to both
 As well th' *Ionian* : the latter laves
 The Grecian Land for Warriors long renown'd :
 The former the *Ausonian* passes by.

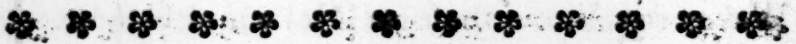
BELOW the Land of Sicily, there flows
 A Sea extending into *Lybia's* Bounds,
 And to the southern *Syrtis* rolls along
 Which, being two, was once the broader call'd.
 (Tho' now the Moderns name it *Sidra's* Gulf :)
 The other having a less Bay within,
 Receives the tide, which from a Distance comes.
 Thus these two Bays with eddying Streams resound
 The Sea of Crete, (which by another name
 Is *Candia* call'd) approaches to the East.
 Then to the Right the *Ægyptian* Sea extends
 Which, from the *Pharian* Isle receiv'd its Name
 The *Syrian* Sea, then bellows, which was once
 By some, *Phœnician*, some *Sidonian* term'd.
 But upwards tow'rd the North as rolling on
 And creeping inwards, then this Bay receives
 The Name of *Iffus* from the City near.
 Then turning to the West, there flows a Sea
 Which passes in its Course by distant Rhodes,
 And o'er that Tract, which the *Cilicians* once
Pamphylians equally and *Lycians* held :
 Known anciently by all these different Names :

But

But now the Sailors term the whole *Levant*,
 Tow'rds the East flowing from Crete's fronting
 Shore.

THENCE turning to the North, with care observe
 Th' extended Course of the *Ægean* Sea,
 Term'd by the Moderns *Archipelago*.
 The broken Waves here ever roar around
 The Islands called the *Sporades* by Name
 And others, which the *Cyclades* are called.
 No other roaring of the Sea can raise
 Waves equalizing these for Noise and Height.
 In further Tenedos they end their Course
 Imbros on one Side holding there its Place
 From which the northern *Hellepont* appears.
 Then the *Propontis*' broader Waves are seen,
 The Mouth of *Thracian Bosphorus* is next,
 Which lo once, when in an Heifer's Form
 By Juno's dire Command was for'd to swim,
Constantinople is its present Name.
 Tho' this of all is far the narrowest Streight,
 Which ever in the wavy Sea is found.
 Where fame reports the bold *Cyanean* Rocks
 With a great Noise against each other dash.
 Near from this Place the *Euxine* Sea extends,
 Which vast, is far expanded to the East.
 But crooked is the Course by which it runs,
 For ever bending to the North and East.
 But in the midst, two Promontories rise,
 One tow'rds the East, *Carambis* call'd by Name.
 T'other more northern over Europe's Soil,
 Th' Inhabitants

Th' Inhabitants have nam'd it the *Ram's Face*;
 But in this Sea, tow'ards the northern Part,
 The Streams of the *Mæotis Lake* are spread.
 Unnumber'd Scythians dwell on either Side,
Mother of Pontus by the Antients call'd,
 For from his Lake a Sea of Water falls
 Straight to the *Bosphorus Cimmerius*: where
 On Asia's Land, Tribes of Cimmerians dwelt.
 Now, otherwise the *Sea of Caffa* call'd.
 Such the Description of the Midland Sea.



C H A P. V.

Of the Borders or Bonndaries of Europe.

NOW, of each Continent I'll tell the Form,
 That, tho' you have it not just plac'd in View,
 Its Situation may be understood.
 From whence a greater Fame may be obtain'd
 Describing each before the uninform'd.

THE Image then of *Europe* first I'll shew,
 Which to the North of Africa extends,
 And to the western Part of Asia's Land.
 It has as Boundaries from the Lybian Shore
 The western Ocean, and the Midland Sea.
 A Sea divides it next from Asia's Shore
 From the *Ægean* to *Mœotis Lake*.
 The Tanais next extends between 'em both,
 And by the Antients held its farthest Bounds.
 Now, where the Tanais flows towards the South,
 Up

Up to the North, the *Oby* is its bounds.
 But to the northern and the western Parts
 Europe is bounded by the ocean's Waves :
 What to the North extends is wholly North :
 But to the West, and elsewhere upwards too,
 The same is northern : lower down 'tis West.
 Such things of Europe's Bounds have Men declar'd.



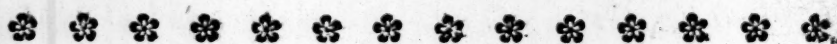
C H A P. VI.

*Of the Eastern Countries of Europe, and first of
 modern Spain and Portugal, both of which are
 situated in Iberia, in antient Spain*

IT S Countries now, and various People next
 And then its southern Tract observe with Care.
 Which is divided into these three Coasts,
 Th' *Iberian*, the *Aufonian* and the *Greek's*.
 Of these, th' *Iberian* Territory's last
 Near to the Ocean, on the western Side,
 Which otherwise, Men formerly call'd *Spain* ;
 Tho' now 'tis not entirely so nam'd :
 For to the west Direction of the Sun
 You may observe a small Extent of Land,
 Known by the modern Name of *Portugal*.
 The Antients nam'd it *Lusitania* once,
 And then the Country of *Iberia* : now
 A foreign Power : there near *Tagus'* mouth
 (Which th' Antients term'd the golden flowing
 stream,)

Lisbon

Lisbon for Sailors yields a pleasant Port,
 The seat of Kings by fam'd Ulysses built.
 And no great distance from the Tagus Springs,
Madrid, of Spain the now Metropolis.
 Then to the Mouth of Bæta, on the South
 Was once *Tartessus*, pleasant in its Scite,
 The well known residence of wealthy Men.
 Then tow'rds *Iberus'* River distant Banks,
 Thy *Pyrenean* Mountains near the Sun,
 Betwixt *Iberia* and *Gallia* reach.



C H A P. VII.

Of Antient and Modern Italy.

THE *Italian* Shore then reaches to the East,
 Plac'd in the middle 'twixt the other two,
 Long in Extent and like a human Leg,
 And by three neighbouring Seas lies undermin'd,
 First the *Tyrhenian*: the *Sicilian* next,
 And then the *Adria*, that abounds with Waves.
 Each tow'rds the Winds Direction takes it Course,
 First the *Tyrrhenian* to the West appears,
 Next the *Sicilian* to the South extends,
 The *Adriatic* borders on the East.
 And on the North the famous *Alps* are seen.
 But in the midst another mountain lies,
 Which in a Course direct divides the Land,
 As if 'twas guided by an Artist's Rule
 (This Mountain, which is *Appenine* by Name,

No workman in the sage Minerva's train,
 Howeyer skilful, could uneven term)
 Taking its Rise near to the northern Alps,
 Ends in the Sea of Sicily its course.

ON either side are many nations plac'd,
 Which from the north-west Part I'll thus relate.
 First the *Tyrrhenians*, by another Name
 Whom we call *Thuscans*, lovely *Florence* hold.
 Next, the wise Race of Latins comes to View,
 Who dwelt upon a fertile ground: to th' West
 The rolling *Tiber* falls into the Sea:
 Sweet flowing *Tiber*, of all Rivers chief,
Tiber, which lovely Rome divides in two,
 Much honor'd *Rome*, and formerly the Queen
 Of other Cities: Seat of powerful Kings:
 But now the sacred Mansion of the *Pope*.

THEN the *Campanian* fertile Soil is seen,
 Where chaste *Parehenope* a Temple held;
 Now by another Name 'tis *Naples* call'd,
 And is the sacred Mansion of a King,
 Who o'er *Aufonia's* southern Climate rules,
 Which the *Picentians* formerly possess'd:
 And after them what reaches to the South
 Both the *Lucani*, and the *Brutii* held.
 Inhabiting as far as the *white Rock*.
Calabrians upwards to the *Adrian Sea*.
 And th' *Japygians*, which to *Hyrius* reach,
 The *Samnites* and the *Marfians* in the midst.

THE *Umbri* and *Piceni* after these
Held each a Part : but now the *Pope's* Domain.

NEXT the *Venetians*, at the Foot of Alps,
And some in *Lombardy*, more near the West,
Who *Modena* and *Mantua* possess,
With *Mediolanum* : other Cities too,
Which near the Course of *Po*, the well known
Race
Of *Celtæ* in more early Ages held.
Such had *Aufonia*, and now hold the same.



C H A P. VIII.

Of *Antient Greece*, which is Situate in *Modern*
Turkey, in *Europe*,

T HEN on the East approaches to the sight
The Land of noble Greeks, where also lies
Peleponesus, like a Plane tree's leaf :
In shape approaching to a Mouse's tail,
Surrounded on each Side by watry Bays,
'Tis now by Moderns the *Morea* call'd.
Once the *Achæans* held it to the North,
And *Elis* City occupied the West.
Near *Pisa*, where *Olympian* Jove had Games
Alpheus pleasantest of Rivers rolls,
Divided from *Eurota's* gliding Streams,
And both from *Asea* derive their waves :
The last the *Elean* Land divides : the first
The *Amyclean* Region cuts in two.

And

And between both *Messenias* City lies.
 Where sandy *Pylos*, Nestor's City stood.
 Th' *Arcadians* next the fertile Dales possess'd,
 Near which the Country of *Argives* lies,
 And that which by the *Spartans* is retain'd :
 One tow'rds the South, the other to the East.
 Of the *Laconians* fam'd *Sparta* once
 The warlike and the famous City stood ;
 And of the Grecians noble *Argos* : then
Mycene, Agamemnon's City near.
 A narrow *Isthmus* the *Morea* ends.
 Two roaring Seas the Isthmian Bank surround
 One on the West is the *Corinthian* call'd :
 That on the East is the *Saronic* Bay
 Near to the East, the *Attic* Shore extends,
 In which you might the well built city see,
 Of *Athens*, where Philosophers once dwelt.
 Next this *Bæotia*, to the West and North.
 And seven Gate *Thebes* the Work of Cadmus
 stood.
 And fam'd mount *Helicon*, the Muses seat.
Phocis stood next, stretch'd tow'rds the East and
 North,
 Near to the Streights of fam'd *Thermopylæ*,
 Under snow-Top'd *Parnassus'* Mount, thro' which
Cephissus vast descending stream resounds.
 Near which the *Python's* Soil with Fumes is smoak'd
 Of Sacrifice, and where the Serpents' wreaths,
 In Twists surround the Tripod of the God.
 Wreaths horrible with length of endless Scales

Adorn the lovely Temple of the God.
 'Tis here, when stopping he from *Clarus* comes
 Or from *Miletus*, with design to loose
 His golden Quivers and discharge the same.

THEN to the West of th' *Aracynthian* Hill,
 Th' *Ætolian* Land forms one extended Plain,
 And thro' its midst, in a vast watry Tract
 With silver Whirlpools *Achelous* flows.

After th' *Ætolic* to the western Breeze,
Dodonas, Continent immense to View
 Tow' rds lofty Mountains the *Ccraunia* call'd :
 Where once *Ambracia* stood : and then not far
 Is *Actium*, and the *Acaranian* Race.

THEN *Thessaly* and *Macedonia*, one
 Where the Pellæun Alexander rul'd :
 The other, where Achilles, Peleus' Son.
 Greece held so many various People once.



C H A P IX.

*Of Antient Illyrium, Mæsia and Thrace, in Modern
 Turkey in Europe.*

T HENCE tow' rds the Adriatic Bay ; by Greece
 Was once th' *Illyrian* Land, and antiently
 In two Divisions form'd : *Liburnia* one :

Whol

(Whose People are *Croatians* :) the next
And bordering on the first, *Dalmatia* was.

THEN tow'rd's the East extended, *Mæsia* lies
Far from Illyrium to the Euxine Sea,
And much more southern, than deep *Ister*'s streams
Next below *Mæsia* the *Thracians* dwelt,
And occupi'd a wide extent of Land;
Some under lofty *Rhodope*', and some
On snow-top'd *Oemus* : others too again
Above the rapid flowing Hellespont,
And on the *Ægean* deep resounding Sea.
Others again near the *Propontis*' Sides,
And others upwards where the northern Streight
Of *Bosphorus*, is seen, which formerly
Did from the *Thracians* receive its Name :
But now, the City of the Emperor
Constantine call'd, has given it its Name.
Tho' th' Antients call'd it once, *Byzantium*
Of old Renown, and neighbouring to the same
Strong Residence of Turkey's Grand Signior,
Who governs Europe far towards the East.
Wherefore the Eastern Part of Europe, now
As far as reaches the Danubian Streams,
Bears *European Turkey* for its Name.
Such is the southern Part of Europe's form.

C H A P. X.

Of the Mediterranean Parts of Europe, and first of modern Walachia, Moldavia, and Transylvania, plac'd between antient Dacia: and also of Poland, Muscovy and Tartary, all situate between antient Scythia, or Sarmatia.

NOW then of middle Europe take the Form,
Where on the East, more north than Isters
streams,

The *Dacians* formerly possess'd a Land :
But the *Wallachians*, *Moldavians* now,
And *Transylvanians* hold it as their own :
Thence, to the North, the num'rous *Scythians*
were,

And *Taurians* (who the *Chersonesus* hold,
Near to the fam'd *Achilles'* dang'rous Course.
Upon the mouth of the *Mœotis* Lake)
Sarmatians were, *Bastarnæ* and the bold
Alani, Tribes of *Neuri* ; after these
Geloni, with the *Agathyrsian* Race,
And upwards th' *Arimaspians* warlike Sons,
With many others which I cant relate,
Where the *Borysthenes* wide spreading stream,
(Which otherwise is now the *Nieper* term'd)
Is with the *Euxine* mix'd, and opposite
The Rocks, which are *Cyanean* call'd by Name.

BUT of the *Tauric Chersonesus*, and
The neighbouring Land of other *Scythians*,
The *Tartars* now Inhabitants are held :

So of *less Tartary* it bears the Name.

WHAT of *Sarmatia* or *Scythia's* left,
The *Poles* and *Muscovites* inhabit now;
One to the East, the other to the West.
Moscow's the chief of *Muscovy's* Domain
That of the *Poles*, in two Divisions lies,
And each upon the *Vistula* are plac'd,
Warsaw above, and next *Cracow* below.

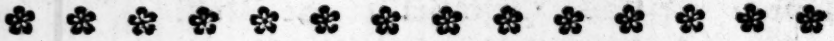


C H A P. XI.

Of antient and Modern Germany.

NEXT these the martial *Germans* to the West.
Now, as before, possess extensive Lands.
Where stands *Vienna* the Imperial Seat,
And where sweet Rivers, *Ister* to the East,
(Round *Peuce'* with five Channels flowing wide
Discharg'd in the *Euxine* all its Foam,
Which Men the *Danube* otherwise have nam'd)
And then the *Rhine*, which to the North and West.
At last is in the northern Ocean lost.
Whate'er Extent the *Germans* now possess.
Down from the Alps to the *Danubian* Stream,
So much from West to East in order once,
Rhæti, *Vindelici* and *Lorians* held.
Next these, a Land approaching to the East,
And yet more southern than the *Ister's* Course,
Claim'd the *Pannonians* as Inhabitants.
Now this, and one more North than *Isters'* Course

Th' *Hungarian* Nations by Possession hold.
 What next the Rhine extending tow'rd's the West
 The Germans hold, such was the Celtic Land.



C H A P XII.

*Of modern France, and also of Belgium, and Switzer-
 land, which are situate in the antient (Celtic or
 Celtogalatia, that is,) Gaul.*

FA R to the Ocean then, the *Celtic* Race
 Reach to the Pyrenean, and the Alps.
 Where large *Lutetia*, with its ample Streets
 (Which the *Parisian* Gauls once rais'd, is now
 The City *Paris*,) by the *French* possess'd.
 As well *Lutetia*, and the Gallic Land.
 And yet not all, for in the Gallic Bounds
 Near to the French the Belgic Nation lies,
 In two Divisions ; one the *Dutch* defend,
 The *Spaniards* still the other Parts possess.
 The Land more northern than the River Rhine,
 Is now the Dutch ; and never did belong
 Or to the Belgæ, or the other Gauls.
 But Germans always held it as their own.
 There *Amsterdam* a pleasing Port affords,
 But in the further Belgium you see
Brussels, for rich Inhabitants far fam'd.

So in the Gallic Land, the *Leman* Lake
 (Which now the moderns by another name
 Have call'd *Geneva*, from the City near)

Th'

Th' Helvetians in the upper Parts possess'd,
 And the Allobroges the lower held.
 These the Savoyards, those the Swifs now nam'd,
 Each Race of these dwells out of Gallia's Bounds.

Just so the *Leucians*, a Gallic Race
 Inhabit *Nasium*, which is now possess'd
 By *Lorrainers*, yet different from the Franks,
 And situate without the Bounds of Gaul.
 Such then, of middle Europe is the Form.

* * * * *

C H A P. XIII.

Of the northern Territories of Europe.

ON the North-west of Europe, near the mouth
 Of Codan's Bay, are numberless small Isles.
 Of these the largest in more early Times
 The Codans held, who nam'd th' adjoining Sea,
 Renown'd and warlike, Fame relates the Danes
 Are of their Race, and now possess the Isle
 Call'd Zealand, where the City stands to View
 Of *Copenhagen*, a strong regal Seat.
 And all the others, among which to th' West
 Is *Chersonesus*, where brave *Cimbrians* dwelt.

THE Danes great King *Norwegians* too obey
 Among the Antients *Norigonians* call'd
 Who lie more northern than the Codan Bay.
 To th' West, below the lofty *Sevon's* Tops
 Which by a modern name the *Dofrine's* call'd
 Where *Christiana* is the Viceroy's Seat.
 Beyond the *Dofrine*, leading to the East.

As far as Muscovy's the *Swedish* Land.
And where, contiguous to the *Bothnian Bay*
You see the royal City of *Stockholm*.

. THE antient Mariners of Greece and Rome
To the North Part of Europe's distant shore
With speedy vessels never yet approach'd,
Wherefore each Land aound th' *Bothnian Bay*
They've Islands nam'd : one *Scandia* to the West,
The *Baltic* also : that upon the East,
Is as the *Gulf of Finland* known by Name.
Such by description then is Europe's Form
So many too its various People are.



C H A P. XIV.

Of the Borders or Boundaries of Lybia or Africa.

NOW if you'd wish of Africa the Form,
I'll not conceal it : for in wide extent
It lies approaching to the southern Sun ;
Tow'rs South and East, like a small Tables Form
To th' South-west, Lybia ; Europe to the North ;
The Bounds of each to eastern Asia reach,
Th' Arabian Bay, and Isthmus, which adjoins
Both sep'rate Lybia from Asia's Realms.
The midland Sea, bounds Afric to the North,
But to the Western, and the southern Sides
The western and the southern Ocean lave,
Which otherwise is th' *Æthiopian* call'd.

C H A P. XV.

*Of modern Barbary, and the antient Countries which
are situate in it.*

BUT to the furthest Corner there reside
Near to the Pillars, Tribes of *Moorish* Land,
There *Fez* and here *Morocco*, too are seen :
The Mansions of the powerful Moorish King.

NEXT these Numidian countless Nations were
And now are subject to the Algerines
Whose Residence a spacious Port commands,
Not safe for Xfian Mariners to use.

NEXT these, the Tribes of antient Afric dwell,
Where *Carthage* had a very pleasing Port,
Carthage, Fame says, built from an Oxe's hide,
Carthage the powerful Queen of Lybia once,
Deserted, and now utterly destroy'd.

NEIGHBOURING to this, Tuniffians hold their
Seat
Whom the surrounding nations all obey.

IN order next, the *smaller Syrtis* comes,
Fill'd by the Streams of the *Tritonian Lake*
Eastward the other *Syrtis* next appears,
Loaded with Whirlpools, greater and more loud.
In th' midst of both a City stands to View
Call'd *Naples*, and beyond the Bounds of which,
Lotophagi did dwell, by Nature mild,
Where once *Ulysses* in his wandrings came
Now o'er its people *Tripolis* presides.

NEXT

NEXT these Cyrene th' Amyclæan Race,
 And the *Marmaridæ*, near Ægypt's Bounds
 There stood the Temple of the *Lybian* God
 With sand surrounded, but in that Domain,
 Is *Barca* now, whose Power is uncontroll'd.
 So many barbarous nations hold, and held
 The northern Coast of *Lybia* to the Sea.
 Whence by the Moderns, *Barbary* 'tis call'd
 As far as Ægypt from the western Sea.



C H A P. XVI.

*Of Nigritia and Æthiopia, and other Countries
 situated in western and southern Lybia.*

UNDER the Tops of Atlas spreading Mount
 Next *Barbary*, *Bildugeri* extends:
 Which formerly *Gætulians* possess'd,
 And *Nasamones*; who not fearing Jove,
 Their impious Deeds the Roman spears reveng'd.
 Next these *Pharussii*, adjoining whom
 The countless *Garamantians* held their Seat:
 But now each Land is *Zaara's Desert* term'd.

MOST distant then the *Æthiopians* dwell:
 Some upon *Niger's* Banks, and some again
 On *Nuby's*: some to th' Ocean's southern Course,
 Others again towards the Arabian Gulf,
 Who from their Ancestors receiv'd their names
 Of *Blemyes* and *Erembi*: Fame reports
 From *Trogloditæ* Arabs they are sprung

The

The *Æthiopian* Land has other Names
 Harsh and ill-sounding : not for metre fit:
 Wherefore I'll mention but the following two,
Guinea the one ; and *Abyssinia* next.

THE Land of *Guinea*, (whence the Gold's pro-
 — duc'd)

Lies something lower, than the *Niger's* streams,
 Much Foam conveying to the Ocean's Waves
 On each side ; where *Cape-Verd* appears to View,
 On the most distant West of *Lybia's* Land.
 So to the southern Boundaries in the Sea,
 To Sailor's grateful, of *Good Hope the Cape*.

THE *Abyssinians* lying to the East,
 Possess the Bottoms of the shady Hills,
 From whence descend the fertile Streams of *Nile*.
 Which towards *Ægypt* as it wide appears,
 From *Abyssinia* slowly creeping on
 By the *Æthiopians* *Siris* takes for Name.
 But of *Syene*, the Inhabitants
 Have when it's Course is chang'd renam'd it *Nile*.



C H A P. XVII.

Of antient and modern Ægypt.

THE *Nile* extended far towards the North,
 Thro' seven Mouths rolling, falls into the
 Sea,

And by its Waters fattens *Ægypt's* soil.
 No other River's equal to the *Nile*,
 Or to yield Mud, or fertilize the Ground.

A noble Race of Men possess'd it once,
 Who first laid down the various Paths of Life.
 The first Inventors of the useful Plough
 And in the equal Furrows laid the Seed.
 'Twas they the Heavens, who by Lines describ'd,
 And mark'd the oblique Passage of the Sun.

Of these I'll speak, and of the Country's Bounds,
 And Form : for Science once so highly known.
 Nor as to Size, can it be little deem'd,
 For here and there with Fields and Pastures
 crown'd

Produces every Excellence for Use.
 As far as lofty top'd *Syene* lies,
 And fortifi'd with two surrounding Mounts,
 Between which fall the pleasing streams of Nile.
 This also rich and numerous People held,
 Who noble *Thebes* in Days of Yore possess'd :
Thebes antient, for its hundred Gates renown'd,
 Where echoing Memnon hails the rising Morn.
 And who the Middle Continent once held,
 In which these seven Cities scatter'd lie
 That held the Coast contiguous to the Sea,
 As far as leads to the *Serbonian* Lake
 The Ground that lies encircled by the Nile
 The Name of *Delta* from the antients took,
 For in three Sides its Form appears to fight
 To th' North 'tis broad, and sharpened to the
 South

And thus divided falls into the Sea.
 Of *Memphis*, once for Pyramids renown'd
 The City stood : but now adjoining it

Grand

Grand Cairo stands, th' Imperial Turkish Seat.

BUT to the westward in the Deltic Land,
Of great *Canopus* stood the noted Fane,
Adjoining it a well built City's seen,
Which now of *Alexandria* takes the Name,
Where rich with Gold, Serapis' Temple stood.
Were you all Parts to search, you'd scarcely see
Either on Earth, a Temple more divine,
Or yet a City equal for its wealth,
On which are seen *Pallene's* Beacons high.

NEXT then on t'other side of Delta's Land
Near to the Casian Mountain : once the Town
Which did from *Peleus* receive its Name
On the Sea Coast Men skill'd in Sailing held.
Such then is *Lybia's* Form, and such its Men,



C H A P. XVIII.

Of the Borders or Boundaries of Asia.

NEXT then of Asia I shall shew the Form .
Already I have told you what the Bounds,
That to th' westward th' Asiatic Ground
From Europe, and from *Lybia's* Realms divide,
Which tow'rds each Land in equal Bound'ries lies
But, to the North th' extent is yet unknown ;
Thence be it bounded by the Ocean's Course,
D The

The *Eastern* and the *Indian* to the East,
And to the South, the *Indian* and the *Red*.



C H A P. XIX.

*Of Scythia and other antient Countries, situated in
modern great Tartary.*

NOW Asia's various People I'll recite,
(Do you O Muses lend me every Aid)
First dwell adjoining the *Mæotis* Lake
Mæotæ; and the *Sauromatian* Race,
The hardy Offspring of the warlike Mars,
From valient *Amazonian* Blood deriv'd,
Who wandering, mixt with *Sauromatian* Men
Far from *Thermodon*: once their Country dear
Whence their Descendants are with Courage fill'd,
Inhabiting a Boundless Tract of Woods,
Thro' th' midst of which the *Tanais* rolling on
Falls to the Bottom of *Mæotis*' Lake,
Dividing Europe still from Asia's Bounds,
Europe to th' West: and Asia to the East,
Crowded the *Sindi* and *Cimmerii* next
Receive the *Sauromatians*, and their bounds:
Cercetii and *Oretæ* do the same,
And bold *Achai* near the *Euxine* Sea.
From *Xanthus*, and *Idæan* Simois, whom
The Southern and the northern Breezes brought.
Following to War a bold and martial King;
Next these th' adjoining Territory held

Heniochi

Heniochi and *Zygii* Greeks by Birth.

Then of the *Rbay* the deepned stream flows on,
 It sources in the European Land
 At Distance murmur, and with swelling streams
 Runs so collected o'er the Scythian Plains,
 Much Foam discharging in the *Caspian* Sea.
 A numerous Race of Scythians on its Mouths
 Once held their Residence, whose various Names
 'Tis far beyond my power to recount.

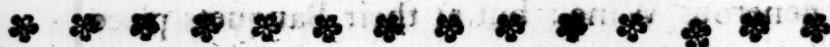
Next these approaching to the eastern Climes,
 On t'other Side *Araxes*' echoing Stream
 The *Massagetae* liv'd, who hurl swift Darts :
 Men with whom, neither I, nor any else
 Cou'd e'er on amicable Footing stand,
 More savage far, than every other Race :
 Nor, do they know of Corn the grateful Taste
 Or generous Wine : but at their Banquets place
 And drink with Milk the Blood of Horses mixt.

NEXT these *Chorasmi* on the northward dwell :
 Next these the *Sogdian* Land, and thro' its midst
 The sacred *Oxus* rolls its holy streams,
 Emodus leaving in the *Caspian* Sea.
 Next these near *Iaxartæ*' Streams once dwelt
 The *Sacæ* bearing Bows ; so exercis'd
 No skilful Archer could their Art impeach.
 The Shafts they shoot are never sent in vain
 More Scythians yet the outer Bounds possess,
 Round them, a Land with Winds infested lies,
 Oppos'd to Winter's Cold and stormy Hail.
 Wretched those Men, who here Possessions hold,

For when these Winds their utmost Powers discharge,

You'll either see their Horses lying dead,
Or Mules : or in the Fields their grazing Sheep,
Nor can themselves escape the dire effects,
Who near these pestilential Breezes stay
But with join'd Waggon's fly to other Realms,
And to the Winter Winds their Country leave,
Which raging with a more than furious storm,
Shake e'en the Earth and the Pine bearing Mouns.

WHAT once of Asia the Scythians held,
Such now the *Tartar's* barbarous Nation hold.
Therefore this Land Great Tartary is nam'd
Where to the furthest Waters of the Rhay,
Of *Astracan* the famous City stands.



C H A P. XX.

Of Colchis; Albania and Iberia, each situated in modern Georgia.

TOW'ARDS Pontus innermost Recesses next
After the Land of *Tyndaridæ*

The *Colchians* dwelt, Strangers of *Ægypt's* Land,
And were adjoining the *Caucasian* Mount,
Which near th' *Hyrceanian* Sea with lofty Tops
Reaches on high, where *Phasis* rolling Stream,
Along the Back of the *Circæan* Plain
Much Foam discharges in the Euxine Sea,

Beginning

Beginnig first from the Armenian Mount.
 Then to the East, and northern Parts of this
 An *Isthmus* in a near Direction lies,
 An *Isthmus* of the Black and Caspian Sea,
 The *East Iberians* here inhabited:
 And the adjoining Territory next
 Of the *Albanians* long renown'd in War
 This *Isthmus* since the *Georgians* now possess,
 Who, on the Mountains *Teflis* City guard.



C H A P. XXI.

Of the antient *Asia-Minor*, (which is now called
Anatolia, or *Natolia*, and is a Country of Turkey
 in *Asia*) and first of the Kingdom situate near the
Euxine.

F R O M Colchis and from Phasis to the West
 Observe, adjoining to the *Euxine* Sea,
 The Troops of *Pontus* to the *Thracian-Mouth*:
 Where *Chalcedonia* stands full to View.
 First the *Byzeré*, and *Bechirian* Race,
Macrones, *Phylures* and *Mosynæci*.

NEAR these the *Tibarenians* hold their Seats;
 With Flocks abounding: and next these again
 The *Chalybes* possess'd a hard'ned Soil.
 Taught to form temper'd Steel in various Shapes,
 And lab'ring at the sounding Anvil's stood
 With endless Labour, and incessant Toil.

Next these the *Cappadocian* Land extends,
 Where reaching from the fam'd *Armenian* Mount,
 To thole, who *Amazonia's* Country hold
 Warlike *Thermodon* yields a frothy Stream,
 Which once *Sinopé* wand'ring far receiv'd,
 And plac'd her grieving in her own Domains,
 Under Imperial Jove's immediate Care :
 For he of sweet and close Embraces fond,
 Led her unwilling from her Country far ;
 From whom a City since *has borne the Name*.
 There on the Borders of this frigid Stream,
 The clear Crystal's polish'd Stone you'll cut,
 And the blue Jasper may be also found.

THE *Iris* limpid Streams next reach the Sea,
 And next the *Halys* River murmurs loud,
 Advancing tow'rd *Carambis* lofty Top,
 Beginning first from the *Armenian* Mount.
 Next to the Shores, the *Paphlagonians* dwell,
 And *Maryandi* sacred Soil lies next :
 There Pluto's *Cerberus* with brazen Voice,
 Drawn by the Hands of warlike *Hercules*,
 Discharges filthy Moisture from his Jaws.
 Which Earth receiv'd full baneful to Mankind.
 Next these, *Bythinians* held a fertile Soil,
 Where *Rhebas* pleasing Stream flows gently on :
Rhebas, which near the Mouths of *Pontus* flows,
Rhebas, whose lovely Stream glides o'er the Land :
 So many *Pontus* by Possession hold ;
 Be they the *Scythian* Nations sung before.

C H A P. XXII.

Of the rest of Asia-Minor.

NOW Asia-minor's Form shall be describ'd,
Which reaches southward tow'rd the
Hellepont,

To the whole Length of the *Ægean* Sea,
As far as *Syria* and *Armenia's* Bounds.

THE *Chalcedonians* first possess the Land,
Byzantium viewing in an oblique Line :
Next these *Bebryces*, and the *Mysian* Mounts ;
Where *Cius* in meand'ring Streams flows on,
Adjoining which a Nymph in amorous Mood :
Stole youthful *Hylas* while on Message sent,
To serve his Master *Hercules* renown'd.

NEXT then approaching to the Hellepont;
Less-Phrygia reaches with a winding Course :
One Part, in which the Bound'ries inward lie,
And broader, reaches to *Sangaria's* Streams.
The large one lies extended to the East :
The Nurse of Course's : and a fertile Soil.
The other to the Westward you may see
Lying below near *Ida's* sacred Feet,
Where *Troy* with Winds surrounded once was
built.

Troy the fam'd Residence of warlike Men,
Troy, by *Apollo* and by *Neptune* built,

Which

Which *Juno* and *Minerva* overthrew.
Near *Xanthus* and *Idæan Simoi's* Streams.

NEXT this, *Æolia's* Territories lie
Near to the Mouth of the *Ægean* Sea,
And to the Eastward of the *Hellespont*.

NEXT this illustrious *Ionians* dwelt
On the Sea-shore, and where along their Land,
Mæander, with full Whirlpool's seeks the Sea,
Between *Miletus* and *Priena* wide.
Then these more Northern *Ephesus* lies next,
'The chaste *Diana's* noble Residence,
Where, to the Goddess, *Amazonians* built
A Temple in the Body of an Elm:
To Men a Wonder not to be explain'd.

Mæonia after these upon the East:
The *Lydians* since this Territory held,
Plac'd under *Tmolus*, which with Winds abounds.
From whence *Pactolus* in Meandring Streams
Murmurs, while down its Whirlpools rolls the
Gold.

Here, on its Banks, while sitting in the Spring
You'll hear the Swans with shrill repeated Notes
Feeding in Groves among the thick'ning Grass.
In *Asia*, many verdant Pastures lie,
But chiefly in the fam'd *Mæandrian* Plains,
Where the *Caysters* pleasing Stream resounds..
Close to the Sea, the *Carians* held a Soil,

And

And *Lycians* tow'rd's the *Xanthus*' noble Streams :
 Where *Taurus*' Mounts with lofty Tops are seen,
 Which o'er all *Asia*'s middle District lie,
 And from *Pamphylia* to the *Indies* tend ;
 Sometimes oblique, and sometimes more direct :
 But why of *Taurus* it obtain'd the Name
 Is, that its Shape approaches to a Bull's,
 And in Position shews a pointed Head,
 With various Mounts and spacious Channels
 fraught :

From whence with Noise unnumber'd Rivers flow,
 Some to the North, and others to the South ;
 And some again both to the East and West :
 But who could all their various Names recite ?
 'Tis not distinguished by a single Name,
 But in its Windings different Titles takes.
 This to those Men should chiefly be a Care
 Who, in that Region hold a neighbouring Seat.

NEXT to the *Lycians* the *Pamphylians* dwelt ;
 And above these approaching to the North
 The Land of *Pisidæ* : while near to these
 The *Lycaonians* dwelt, long skill'd in War,
 And in Engagements use the crooked Bows.
 Upwards again the *Galatæ* once dwelt.
 Next the *Pamphylians*, tow'rd's the Eastern Sun
 Was once the Country by *Cilicians* held.
 Close to the Sea, where well built *Tarsus* stood,
 Where *Pegasus*, the Muses famous Horse
 Losing its Hoof, gave to the Place its Name.

When

When from his Horse renown'd *Bellerophon*,
 Fell while proceeding to Jove's Residence.
 There the *Aleian Field*, where o'er its Bounds,
 And far from Men he wander'd by himself.
 But to the Eastern Parts between the Land
 Of the the Cilicians, there lies a Bay
 Which took its Name from *Iffus* that adjoin'd.
 The Land, which thence to the *Ægæan* tends
 Between the Euxine and the Midland Sea,
 Such now the Moderns have *Natolia* nam'd:
 The Antients call'd it *Asia* the *Less*:
 And that beyond it was the *Larger* term'd.



C H A P. XXIII.

*Of antient Syria, which is situated in modern Turkey
 in Asia.*

N E A R *Iffus* Bay, and tow'rd's the Eastern
 Sun,

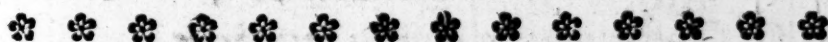
At Bottom of *Amanus* Mount you'll see
 Extending forth a narrow Piece of Land;
 Some call'd it of *Cilicia* the *Gates* :

Others of *Syria* : for on one Side lay
 Once the *Cilician* Land : on t'other next
 The *Syrian* Cities on a bending Shore ;
 For to the West a wide Extent of Sea
 Advances onwards to the *Casian* Mount,
 Which with its lofty Tops surrounds the Shore.

Men,

Men, rich and numerous *Syria* once possess'd :
 Some who extended to the Northern Parts,
 Between *Euphrates* and th' adjoining Sea :
 Call'd *Syria-proper*, once inhabiting
 Both *Antiochia* and the *Pleasant Vales* :
 The pleasing Scene *Orontes* here divides.
 Those lower, tow'rds the Sea *Phœnicians* are
 Sprung from the antient *Erythraean* Race,
 Who first with Ships the Ocean's Surface dar'd,
 And Commerce with the diff'rent Realms contriv'd,
 And of the Stars the heavenly Course observ'd,
 Who dwelt in *Sidon* and the antient *Tyre*.

Thence of the *Jews* the sacred Race is seen
 Round *Jordan's* River, once who *Gaza* held,
 And *Joppa*, and divine *Jerusalem* :
 With various other Towns each other near,
 Which in the *Palæstine* of *Syria* lie.
 What Land the *Liban* Hills extending round
 Have form'd more low, and in the Middle plac'd,
 Such is by Men the *Hollôw Syria* term'd.



C H A P. XXIV.

Of Antient and Modern Arabia.

FROM *Syria* next both to the East and
 South,
 Th' *Arabians* hold a thrice divided Land.
 What between *Syria* and *Euphrates* lies,

Is

Is from the Sand neglected and forlorn,
 And thinly scatter'd with Inhabitants.
 Next these below the Southern Syria's Bounds
 Tow' rds the Retreat of the Arabian Bay,
 Some Mountains far and widely scatter'd lie :
 Whence 'tis *Arabia Petræa* nam'd.

NEXT this *Arabia Fælix* comes to View ;
 High in Ascent, surrounded by two Seas :
 I mean the *Persian* and *Arabian* Gulphs :
 Each of them takes a Quarter to itself,
 The Western by th' Arabian first is claim'd,
 And next the Persian takes the Eastern Wind :
 Its Southern Bound advancing to the East
 Is by the Waves of the *Red Ocean* lav'd.
 Now, how it lies I'll faithfully describe,
 For chiefly this beyond all other Parts,
 Rich and much honour'd People ever held :
 To it a Wonder far renown'd pertains ;
 With fragrant Scents perpetually perfum'd,
 Or Frankincense, or Myrrh, or Calamus,
 Or Frankincense in Sacrifices us'd,
 Or Cinnamon, for on that very Soil
 Jove from his well sown Thigh let Bacchus fall :
 Whence at his Birth each various Essence sprung.
 Then were the Sheep with fuller Fleeces clad
 While grazing in the Pastures : then the Lakes
 From sudden Springs their watry Platform spread,
 Then from deserted Isles flock'd in the Birds,
 Bearing of real Cinnamon the Leaves.

But he a Fawn-skin o'er his Shoulders threw,
 With graceful Ivy crown'd his lovely Hair,
 And drunk with Wine the twisted Thyrsus shook,
 And sweetly smiling pour'd out Wealth for Men.
 Whence to this Day the Fields with Incense groan;
 With Gold the Mountains; and with Scents the
 Streams :

E'en the Inhabitants their Riches boast,
 Cover'd with filken Garments fraught with Gold.
 But first beyond the lofty Mountains Height,
 The *Nabathæans* did the Realms possess,
 And the *Scenitæ* near; a Race which sprung
 From the dread *Saracens* in War renown'd.
 Next, to the South the *Sabæ* famous Race
 And other Nations, vast and numerous once,
Arabia Felix by Possession held.

Where near the Bay, which takes from thence its
 Name,

Mecca and *Medina* are two fam'd Towns;
 One where the Tomb of *Mahomet* is shewn,
 And t'other, whence this great Impostor sprung.



C H A P XXV.

Of antient Mesopotamia, Assyria, Babylonia, or Chaldaea and Armenia, all which for the most Part lie in modern Asiatic Turkey.

THEN to the Eastern Side of Syria's Realms,
 And of Arabia's Desert, there descends
 The deepned Course of the *Euphrates* Stream.

E

Thus

Which first proceeding from the Armenian Mount,
 Far in Extent approaches to the South :
 Then next a Winding opposite the Sun,
 And passing over Middle *Babylon*,
 Into the *Persian* Gulph discharges Foam,
 With its last Waves *Teredon* passing by.

NEXT this, and Eastward, beautiful to Sight
 The *Tigris* swiftest of all Rivers runs,
 Yet notwithstanding with an equal Stream,
 As far from the Euphrates flowing on,
 As marching for the Space of seven Days
 A strong and speedy Traveller could walk.
 Then in the midst environed by Waves,
 There lies a Marsh, *Thonitis* call'd by Name :
 The *Tigris* thro' its inmost Parts is drawn,
 And under ground conceals itself from Sight,
 And then emerging upwards, it displays
 A swifter Stream, which falls again from View.
 Than this, you'll ne'er a swifter River see.
 Whatever Region there extended lies
 Between Euphrates, and the *Tigris*' Streams
 Th' Inhabitants call *Mesopotamé*.
 No Cowherd will those Pastures e'er contemn,
 Or those, who on the Pipe should celebrate
 The rural Pan known by his cloven Foot,
 While tending in the Fields their browsing Sheep.
 Nor would *he* blame the all producing Wood,
 Whose Care's employ'd to nourish Plants and
 Trees.

O'er

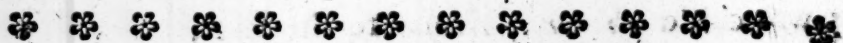
O'er all those Parts so fertile is the Soil,
 Such verdant Plains, and well proportioned Men
 Approaching in their Form th' immortal Gods.
 Thence to the East, th' *Affyrian* noble Race,
 A City held with large and spacious Streets,
 Which near the Tigris *Ninus* founded once.

NEXT tow'rds the South, was sacred *Babylon* :
 The whole of which, with strong and lofty Walls
 Was by the great *Semiramis* enclos'd.
 There in the Citadel a Mansion great
 She built for *Belus*, and adorn'd each Part
 With Silver, Gold, and polish'd Ivory.
 Large was its Structure, and upon its Scite
 The sage *Chaldeans* mark'd the starry Course.
 Palm Trees their Arches there spontaneous spread,
 There more esteem'd than even Gold itself
 Is the blue Berrill's valuable Stone,
 Which with Ophites on the shallow Streams,
 Of Torrents near exhausted, hidden lies.
 Further than *Babylon*, and tow'rds the North
 Beyond *Affyria* lies a stony Soil,
 Held by *Armenians* round Euphrates Course :
 Twas call'd *Armenia-Major* to the East,
 And to the West, *Armenia-Minor* lay.

C H A P. XXVI.

Of Modern Turkey in Asia.

AS many as possess the Land, which lies
 Between the Tigris and Euphrates Streams
 As many as Armenia too possess
 With Asia Minor, and the Syrian Towns;
 And are Inhabitants of Babylon,
 So many now obey th' Imperial Turk.
 Under one Name, the whole to comprehend
 Tis known as *Asiatic-Turkey* now.
 Then, upon Asia-Minor's western Shore,
 Lies *Smyrna*, and on Syria's western Side,
 Is *Alexandria* near the Northern Sea,
 Call'd by the modern Sailors *Scanderoon*.
 Next in the Middle of the Region lie
Aleppo and *Damascus*, known of yore.
 In Asia now the Turks these Cities hold,
 For every Kind of useful Merchandize
 Among the Europeans long renown'd.
 But beyond Syria to the Tigris Stream,
 Lie *Banna*, *Mosula* and fam'd *Bagdad*:
 And lastly comes *Bassora*: these were all
 Of Turkey, Fortresses upon the East.



C H A P. XXVII.

*Of the Hyrcani, Caspians, Medes, antient Persians,
 and other People formerly situated in modern Persia.*

THEN to the East the *Persian* Region lies,
 Where once *Hyrcani* and the *Caspians* dwelt,
 Extending to the Ocean's Southern Side,

To which by Turns each Nation gave its Name,
 Next these the *Bactri* reaching to the East,
 The Region held below *Parnassus*' Mount :
 The Southern Realms th' illustrious *Medes* pos-
 sels'd,
 Sprung from the noble and illustrious Race
 Of *Ætas* Daughter, a courageous Nymph,
 When near Athenian *Ilissus*' Stream
 She craftily and basely had contriv'd
 The deadly Poison for *Pandion*'s Son.
 With Shame she left that Place, and wand'ring far
 Came to a vast extensive Piece of Land
 Bearing her Name : not from the Colchians far :
 To her e'en there an Entrance was deny'd;
 As dreading much the Anger of her Sire ;
 Whence to this Day, these Men in Poisons deal.
 Inhabiting a vast Extent of Land :
 Some near the Rocks from whence may be pro-
 cur'd
 The Narcissites of a dark'ned Hue.
 But others, dwelling on the Meadows green,
 Feeding their Flocks with heavy Fleeces clad,
 Lie tow'rd's the East, e'en to the *Caspian Gates*,
 Which under deep and lofty Rocks conceal'd
 Recesses of the Asiatic Realms ;
 From whence a Path lies tow'rd's the North and
 South,
 One to th' Hyrcani leading on : the next
 Close to the Mountains of the Persians lies.
 But to the Bottom of the Caspian Gates

Liv'd warlike *Parthians* fam'd for crooked Bows,
 Skill'd in all Kinds of War: they never mark'd
 Or with the crooked Plough turn'd up the Land:
 Nor e'er in Ships with Oars the Ocean try'd,
 Or in the Pasture various Cattle fed.
 But from their very Birth, and as they grew
 With Bows and Arrows all their Time employ'd:
 The Noise of Jav'lins or the Whiz of Darts
 O'er the hoarse Land perpetually resounds:
 As well the Course of Horses swift of Feet.
 They ne'er were suffered to partake of Food
 'Till, by some warlike Action 'twas obtain'd,
 But chiefly liv'd on what the Spear procur'd,
 Unconquer'd ever by the Wiles of War,
 Yet made obedient by th' Ausonian Spear.
 Next these was lying the paternal Soil
 Of *antient Persians*, who alone possess'd
 A race thro' Asia most for Power renown'd.
 'Twas only they who Riches pil'd on Heaps,
 When *Sardes* and *Mæonia* were lain waste.
 Golden the Armour, which enclos'd their Limbs,
 Golden the Bits, which held their warlike Steeds,
 Golden the Sandals, which adorn'd their Feet.
 Such, and so vast the Riches they possess'd:
 But antient Persia must be our Theme,
 Encircl'd round with Mountains large and high,
 Lying more southern than the Caspian Gates,
 And to the Sea of the same Name extends.
 This, many Rivers fertilize around
 On all Sides carried by wand'ring Streams.

More

More fam'd than all *Choaspes* here is seen,
 And by another Name *Eulæus* call'd,
 The *Susa* Territories washing round.
 Here you may see the Agate lovely Stone,
 Just like a Cylinder upon the Earth,
 Which from the Rocks the Winter Floods bring
 down :

For ever gladden'd with a gentle Breeze
 The thick'ning Herbage flourishes around.

NEXT tow'rd the Persian Ocean's flowing
 Waves

Garmani dwelt, below the Eastern Sun :
 Not far from Persis on a two-fold Soil,
 Some on the Shore, some further near the same
 Of these upon the East the first to name
Gedrosi and the *Ariani* are,
 Tho' not Possessors of a pleasant Soil :
 At bottom cover'd with a slender Sand
 Thick set with Spine-yards difficult to pass,
 Yet Means are found, by which they Food pro-
 cure :

The Soil produces Wealth that never fails,
 For in the deep Receffes of the Rock,
 The blue and golden colour'd Sapphire lies,
 Which, when 'tis cut, they traffic with for Gain.
 So many now the Persian King o'er-rules,
 Who dwells in *Isapban* within the Land,
 These fore-nam'd Nations all are *Persian* call'd.

C H A P. XXVIII.

Of Eastern India, antient and modern,

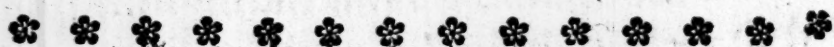
THE *Indian* pleasant Realms approach the East,
 Which *rising* o'er the Works of God and Men
 With earliest Rays the glorious Sun illumines.
 Beside this Soil, there's found another Race
 Of *Indians*, dwelling near the *western Sun*,
 These are distinguished by their tawny Skins,
 Loaded with Fat, and bearing on their Heads
 Hair like a Hyacinth stuff'd up with Grease;
 Of these some search with Care the hidden Gold,
 Digging the Sand with Spades for that Intent:
 Some curious Nets from knotted Flax compleat,
 Some, shave of Elephants the polish'd Teeth,
 Some, trace adjoining to the Torrent's Streams,
 Or the blue Berrill, or the Adamant
 Transparent, or the Jasper green to Sight,
 Or the bright Topaz of a clearer Blue,
 And the sweet Amethyst with gentle Blush.
 There, Wealth of every Kind that Land affords
 On all Sides water'd with continual Streams,
 There a perpetual Verdure crowns the Fields,
 Here Millet grows, and here again are seen
 Of the red Calamus Woods fresh and green.
 But to the Western Bounds a River falls
 Fair flowing *Indus*, whence the Land takes Name,
 And opposite the Red Sea bends its Course
 In straight Direction swiftly tow'rd the South
 Taking

Taking from windy *Caucasus* its Rise :
 This River does with many Mouths discharge,
 And to the middle of an Island runs,
 Call'd *Patalena* by th' Inhabitants.
 The Indian Realms the *Ganges* cuts in two,
 One plac'd on *this* Side, and *without* the other,
 In both these Parts a two-fold Tract extends :
 Each *Continent* approaches to the North
 And to the South, e'en tow'rd's the Sea itself,
 And like a *Chersonesus* in its Form.
 This to the Great Mogul subjection owns,
 Who *Della*, and who *Agrom* holds as Seats.
 Then in the *Western Chersonesus* lies,
 The Coast of *Malabar* : and on the East
 Of *Coromandel*, with St. George's Fort.
 Next on the other Side of Bengal's Bay,
 In th' *Eastern Chersonesus* there are Men,
 Who are Inhabitants of fam'd *Pegu*
 And *Siam*, and *Malacca* distant hold,
 With various other Tribes of money'd Men:
 There the vast store of Gold was found, and thence
 It *Golden Chersonesus* bore for Name.

There lies adjoining to the *Ganges* Waves
 An holy Place much honour'd and renown'd,
 Which *Bacchus* in a Passion once past o'er,
 When into Shields the *Bacchæ* Fawn Skins chang'd,
 And of sharp Swords the *Thyrsi* took the Form,
 Whilst of the bending Vine the Tendrils next
 Seem'd like the the Rattle in a Dragon's Tail.

Then.

Then when thro' Folly they despis'd the Feast,
 That Place was commonly *Lyffæa* call'd.
 Yet all his Orgies faithfully perform'd
 But he, the tawny Indians when he fought,
 Fame says, the Mountains of *Emodi* fought :
 Two Pillars on its Confines when he'd plac'd
 Return'd exulting to *Ismenus* Stream.
 By Alexander fam'd, of *Macedon*
 Two Pillars were erected near this Spot,
 When Vic'try e'en to India he obtain'd.



C H A P. XXIX.

*Of the Sini and Seres formerly situated in modern
 China.*

BEYOND the Indians to the eastern Sun,
 E'en where the Ocean's farthest Waves
 extend

The distant Part of Asia's Continent,
 The sage *Chinese* inhabit by themselves,
 From antient *Sini*, (Fame relates) they sprung,
 For they inhabiting those very Realms
 The southern Parts of modern *China* held.
 But the more northern, now *Cataia* call'd,
 Where of *Pekin* the noble City stands,
 The barbarous Race of antient *Seres* had.
 Such by Description then is Asia's Form,
 And such, who in its Territories dwell ;
 What beyond China to the North extends,

Such

Such was, and still remains to us unknown.
 Whence it continues yet a Doubt to know,
 If Asia northward has the Sea for Bounds,
 Or reaches even to America,
 Of which I now proceed to shew the Form.



C H A P. XXX.

Of America, or the West-Indies.

A N Isthmus cuts *America* in two,
 Narrow, between the South and northern
 Seas,

Of *Darien*, known in general by Name.

Northern *America* o'er it extends.

The southern lower; first I'll shew the North:

Round the North Shore, as far as *Hudson's-Bay*
 Stretch'd out new *Cambria*, and new *Britain* lie.

In Order next, new *France* extends itself,

On either Side of *Canada's* big Waves:

Whence *Canada* that Country bears for Name,

And o'er its Streams, the City of *Quebec*.

There on the Confines of the northern Sea,

Far to the South a Race of English dwells:

Some of *New-England* hold the fertile Soil:

Where on the Coast the Town of *Boston* lies:

While others have the Region of *New-York*:

Some of *New-Jersey* hold the two-fold Soil,

And others *Pennsylvania*: there stands

Of

Of *Philadelphia* the well built Town :
 By others next *St. Mary's* Town is held,
 And then another Race possess a Land,
 Which from a *Virgin* * Queen derives its Name,
 Where *James-Town* commonly so call'd is built.
 Those who the adjoining Region *Charles-Town*
 hold,
 Of English Men have the most distant Place.
 Southward the Land of *Florida* next lies,
 On the Sea Shore *Augustine's* Residence.

Then, next extending to the West and South
 The Land of *Mexico* appears to View
 In two Divisions : plac'd between the Seas :
 The northern otherwise is call'd the *new* ;
 The southern is distinguished as the *old* :
 (On either Side a fame Nam'd City stands)
 One yielding Gold and Silver, a rich Soil,
 The other barren neither can produce,
 On which the Indians hold an unknown Tract.
 Each Mexico the Spaniards now possess
 And a vast Tract of South America.
 In Order now its Countries I'll describe,
 First then extended *Terra-Firma* lies,
 Where to the West is strong built *Panama* :
 On narrow Ground, and tow'rd's the Bay so call'd.
 Next lies *Peru* the Indians richest Soil ;
 Of Gold and Silver yielding boundless Store,
 Where *Lima* populous erects its Head.

* *Virginia*

IN lofty *Andis* shady Vallies next
 Here and there scatter'd *Chili* comes to View.
 These Vallies *Chili's* Territories part
 Both from *Magellan* and from *Paraguay*,
 On either Side each tending to the South,
Magellan first to Streights which bear its Name.
 The *Paraguayam*, upwards, round the full
 And lovely flowing Streams of *Paraguay*
 Which otherwise *La Plata* takes for Name.
 Then rising o'er the liquid Waves they pass'd,
 Who first with Dare to European Realms
 The Riches of America convey'd.
Brazil comes next by Portuguese possess'd
 Approaching even to the Ocean's Waves :
 The inner Land the barb'rous Indians hold.
 Then near a pleasant River's Course there dwell,
 Women and Men alike renown'd in War,
 The name of *Amazons*, from thence 'tis said
 The River and the Country both obtain.
 Such is of each America the Face,



C H A P. XXXI.

Of the Islands, and first of the European.

NOW of the Islands I'll describe the Course,
 Beginning in a North Direction first :
 And opposite the European Shore,
 Fronting the Land of *Norway*, there appears
 An Isle of vast Extent, where round the Soil

Stiffned by Cold the Ice is ever seen,
 (Tho' with incessant Fire Mount *Hecla* burns)
 Yet for the Sake of Ice, 'tis *Iceland* call'd.

But of the *British* Isles upon the South,
 Two for their Size the others far exceed,
 One to the East, which *Albion* bears for Name,
 The other westward is *Ierne* call'd.
 The larger, *Albion*, (by a modern Name
Great Britain call'd,) is by three Nations held,
 Northward the *Scotch*: westward the *Welch* possess,
 And on the South, the *English* hold their Seats.
 In English Realms, and o'er the Thames' wide
 Stream

Stands a large City nobly built and rich,
 LONDON far fam'd, where our great *King* re-
 sides.

In Scotland, *Edinburgh* City lies,
 Where once the Romans *winged* Camp was seen.
 And on the Eastern Coast of Irish Land
 Is *Dublin's* well built City plac'd: the same
 Once by the Antients was *Eblana* call'd:
 These, in their Bigness far exceed the rest,
 Nor among all the other British Isles,
 Can any for Comparison contend.

In Order next the smallest Isles I'll Name,
 Which, notwithstanding are pre-eminent.
 For o'er the northern Shores from Scotland's
 Bounds

The

The *Orcades* are infinite to count.
 Further, than which again may be discern'd
 Another Chain : the largest *Shetland* call'd,
 By antient Writers it was *Thulé* teem'd,
 The utmost Bound'ries of the then known Land.
 (No further o'er the northern Ocean then
 The Greeks or Latins with their Ships did pass,
 Where the Sun tending tow'rd's the northern
 Pole,

Yields Night and Day uninterrupted Light.
 Then in a Tract more crooked its proceeds,
 Its Rays approaching in an even Turn,
 'Till tow'rd's the tawny *Æthiopians* Realms
 Its southern Course it has again fulfill'd.
 Another Tract appears upon the West,
 Against the western Side of Scotland's Shore.
 And therefore now are call'd the western Isles,
 Once the *Ebudæ* by the Antients term'd.

Then to the South two Islands you may see
 Tow'rd's England's western Territories plac'd,
 Both by the antients *Mona* had for Name,
 One only, now retains it : t'other's call'd
 The *Seat of English* on the Welch Domains.
 In Order next against *Bolerius* Mount,
 Which the *Land's-End* th' Inhabitants now name
 The *Scylly* Islands rise, whence *Tin's* produced,
 Call'd by the Antients *Cassiterides*.
 Next, far advancing to the eastern Sun
 Beyond *Danmonius* Promontory, now

By modern Sailors, call'd the *Lizard* Point.
 Before the southern English there appears
 The *Isle of Wight* : lower than this again
 Near the French Territories lie two Isles
Darnia the one, *Cæsarea* the next.

Jersey and *Guernsey* are their modern Names.

NEAR this of smaller Isles another Tract
 Where from the furthest Coast of noble *Nants*,
 Women go forth to offer Bacchus Rites
 With Garlands of black Ivy Berries crown'd,
 At nightly Meetings with shrill sounding Noise ;
 Not so the Thracians at Absinthus' Bank,
 Bistonians to loud raging Bacchus cry'd :
 Nor so around the Ganges dark'ned Pools,
 Did with their Children Indians, to support
 Revels to Bacchus, meet in noisy Mood,
 Like the strange Yellings of these *Bacchanals*.
 The chief of these the Franks have call'd *Belle-Isle*.

In Order next against the Portuguese,
 Another Tract of smaller Isles appears,
 And by a modern Name the *Azores* call'd.
 Before the western Pillars next is seen
 Upon an Island, which appears to float,
 The City *Gades* long renown'd in Fame,
 Where the Phœnicians formerly possess'd,
 Who worship Hercules of Jove's Descent,
 This the Inhabitants in former Days
 Nam'd *Cotinusa*, but now *Gades* call'd.

Of the European Islands lying in the Mediterranean Sea.

IN Order next, between th' Herculean Streights
 Against the Spanish Shore, *Ebusus* lies,
 But by a modern Name call'd *Yvica*.
 Thence the two *Balearides* lie near,
 Call'd by the Antients the *Gymnetidæ* :
 This nam'd the *greater* Isle, the other *less*.
 Next these *Sardinia* wide and *Cernus* near,
 Which now th' Inhabitants call *Corfica* :
 No other Place like this with Groves abounds.
 Next, in the Sea, th' *Æolian* Islands lie,
 Sprung from *Hippotada* a friendly King,
 Who noble Gifts among Mankind obtain'd,
 To rule the Winds now raging and now still.
 There, seven are, which *Plota* take for Name,
 'Cause in the midst a Navigation lies,
 The Antients call'd them the *Vulcanian Isles*.
 Of these most famous *Lipara* is held,
 And *Liparenians* is their common Name.

NEXT Sicily below th' Ausonian Land
 Extended, lies on three supporting Shores,
 The first of *Pachynus* receives the Name,
Peloris next, and *Lylibe* the third,
 The latter on the western Side bears Way,
 The former eastward : but upon the North,
 Windy *Peloris* tow'rd's Ausonia looks.

But

But in the midst is *Ætna* Vulcan's Shop
 Within the deep Recesses of this Place,
 And Italy's Domain, round Rocks immense,
 A narrow Sea with dashing Waves resounds ;
 Fame says divided by Aonian Steel,
 Which once the Sea of Sicily was call'd,
Messinian now,) for Sailors quite unsafe,
 Here *Scylla's* Rock, and there *Charybdis* Foam.

WHEN on the left of th' Adriatic Sea
 You enter to the Japygian Land,
 You'll see the Isle of valiant Diomed
 Whither he fled when angry Venus frown'd,
 As passing tow'rd's the Iberi much lov'd Race,
 By his base Wife *Ægiale's* Advice.

NEXT on the East of the Ionian Sea,
 Isles of *Apfyrus* in long Train appear,
 Which once the Colchians pass'd when much
 fatigu'd,
Ææta's Daughters wandering Steps they fought.
 Then the *Liburnian* Islands come to View,
 The desert Oaks on the Ceraunian Mount.
 And to the South th' *Ambraciotaë* lie.
 Fertile *Corcyra* to Alcinous dear,
 Now by the modern Sailors *Corfu* call'd ;
 And near it *Leucas*, which is *Maura* nam'd.

NEXT this, *Nerician Ithaca* appears
 With numerous Islands various to relate ;

As many as from *Chalcis* when it falls
 With silver Whirlpools *Achelous* bounds,
 And call'd *Echinadæ* in Days of Yore.
 The *Cephalenian* Towns adjoin to these,
 And next *Zacynthus*; *Zant's* the modern Name:
 But further on against the Spartan Land
 Is *Ægyla*, and then *Cythera* lies.
 The latter now is *Cerigo* furnam'd.

THEN next extended to the eastern Sun,
 Is honour'd *Crete*, which nurtur'd Jove himself,
 Fertile and large for Pastures long renown'd,
 On Top of which is *Ida's* sacred Mount:
Ida for ever green with lofty Oaks;
 Now *Candia* is the Name by which 'tis known.
 Northward of this the *Ægæan* Sea extends,
 And numberless the Isles, which in it lie,
 E'en to the crooked Waves of *Hellepont*,
 Where *Sestus* opposite *Abydos* stood.
 The European Isles approach the left,
 And those of *Asia* lie upon the right,
 In Length extending to the northern Wind.

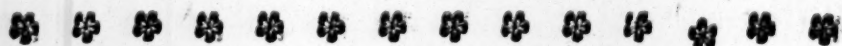
OF Europe, *Salamis* comes first to View,
 And then *Ægina* opposite the Mount,
 Of *Sunium*, and near the *Athenian* Shore.
 Next after these, *Abantian Macris* lies,
 Which by the antients was *Eubæa* term'd,
 Now by another Name call'd *Negropont*.

Then

Then *Scyrus* comes, and *Peparethus* high,
And *Lemnos* next, the rough *Vulcanian* Soil
Lies full to Sight :

With antient *Thasus* *Ceres*' fertile Seat,
Imbros and *Samothrace* ; the latter is

The City of the *Corybantes* call'd,
These are the chief of *European* Isles.



C H A P. XXXIII.

Of the Asiatic Islands.

BUT now I'll sing the *Asiatic* Isles,
In Order first from the *Ægean* Sea.
Those which divide the first of *Asia*'s Realms,
Surrounding *Delos*, *Cyclades* are call'd ;
And to *Apollo* each led up the Dance,
When Spring appear'd, while on the Mountain
Tops
In deep Recesses, far from human Sight
The sweet ton'd *Nightingale* her young produc'd.

NEXT clear to View, the *Sporades* appear,
As thro' the cloudless Sky the Stars are seen,
And the North-wind the moistned Vapours drives.
Next after these th' *Ionian* Islands lie :
Where *Icarus* and pleasant *Samos* are,
The Seat which *Grecian* *Juno* once possess'd :
And *Chios* under *Pellænæus* plac'd.

Then

Then of th' *Æolian* Isles the Tops appear,
 With pleasant *Tenedas* and *Lesbos* wide.
 Beyond th' *Ægæan*, next the *Carian* Land,
 Is spacious *Rhodes*, where *Ialyfians* dwell.
 'Twixt this and *Crete's* the Isle of *Carpathus*,
 Which modern Sailors have *Scarpantis* nam'd.
 Next to the East, the *Chelidonians* lie,
 Three Isles within the *Patarean* Mount.
 But on the East, in the *Pamphylian* Bay,
 Is *Cyprus* wash'd, a City fair to View,
 Where *Dionæan Venus'* Temple stood.
 Next, near *Phœnicia* in a distant Sea,
 The Isle of *Aradus* her Shore extends.
 Such on the West, within the *Midland* Sea,
 Are *Asia's* Isles; but on the eastern Side
 Are others infinite: and lastly these
Latroni numerous: after which again,
 Westward, against the North of *China* lie
 Isles of the *Japonians*, who possess
 The City *Meaca*: there yet remains
 One to the South of *China*, from whose Form
 So beautiful, *Formosa* takes for Name.
 Then the *Phillippines* by the Spaniards held:
 The chief of which *Manilla* takes for Name,
 [Tho' otherwise *Lucona* it is term'd:
 Two Towns lie there from whence these Isles are
 call'd.
 Then the *Molucca* Isles an endless Tract,
Amboyna and *Gilolis*; lastly comes

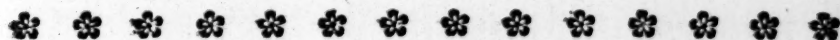
The

The Land, which bears *Celebe* for its Name.
 Then to the West extended *Borneo* lies
 And *Java's* City, by the *Dutch* possess'd;
 Northward, o'er this *Sumatra's* Region lies.

THEN to the West, before the southern Mount
 Which lies below the western Chersonese,
 In eastern India tending tow'rd's the Sea,
 The Island of *Ceylon* appears to View;
 Which Fame reports was call'd *Taprobana*,
 Mother of Elephants from Asia rais'd,
 O'er which uplifted in cœlestial Rounds,
 The burning Cancer in its Orb revolves.
 Others again *Tabrobana* suppose,
 To be the Isle by us *Sumatra* call'd;
 The *Maldives* others: first one large Extent,
 But broken by the Ocean's beating Waves,
 Parted at length in numberless small Isles.
 Close to these Shores, the floundring Whales
 abound,
 The fatt'ning Monsters of the redd'ned Sea,
 Vying with lofty Mountains in their Size;
 O'er their high Backs a long Extent of Spine,
 In Size and Shape looks horrible to View.
 Whatever driven by the dashing Waves,
 Should in its Wand'ring meet the mighty Foe,
 It ne'er escapes from their destructive Jaws,
 When once the deadly Grin surrounds the Prey,
 Both Ships and Men one common Fate have
 found.

For

For impious Deeds, either by Sea or Land,
 God hath unnumber'd Punishments prepar'd.
 Without Carmania's Promontory lies
 In a more distant Line, as well without
Ormuzium's neighb'ring Sea, *Ogyris* Isle.
 Here of the Erythræan King's a Tomb.
 Thence to the Persian Gulf you'll next proceed,
 Advancing northward, and to *Icarus*
 Plac'd on the Shore, where of chaste Dian's Self,
 The flesh-fraught Altars yield a cruel Smoke.
 So many are the chief of *Asia's* Isles.



C H A P. XXXIV.

Of the Lybian or African Islands.

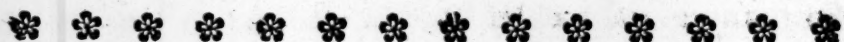
THEN to the Mouth of the Arabian Gulf
 There lies an Isle *Zocotora* now call'd :
 But by the Antients *Obscura* term'd.
 In Order next is *Madagascar* seen,
 Which also once *Menuthias* was nam'd.

BUT then advancing far beyond the Cape
 Which of *Good Hope*, the Appellation bears,
 From Lybia distant is *St. Helen's* Isle
 By English held : two others then apart
 One from *St. Matthew*, t'other *Thomas* nam'd :
 Near to the Shore, below the Equator plac'd.

THENCE to the North, against *Cape Verd* there
 lies

Of

Of smaller Isles a large extending Tract,
 Which of a Promontory bears the Name.
 The Antients call'd them by a two-fold Term
 The *Gorgadæ*, and the *Hesperides*.
Canary Isles in Order next appear,
 Which formerly the *Fortunate* were term'd.
 Next these *Madeira*: antiently 'twas nam'd
Cerne (as Fame reports) or *Erythé*,
 So many are the chief of *Lybia's* Isles.



C H A P. XXXV.

Of the American Islands.

NOW, o'er the wide Atlantic, when you
 pass
 Far to the West, America appears,
 Where at the Canada's fair flowing stream
Newfoundland lies, a wide extending Isle.
 Here bellows round a Sea with Fish replete,
 And proves to Fishermen a grateful Spot.

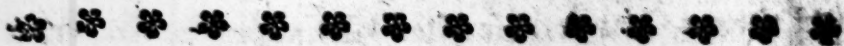
THEN on the South, *Bermuda's* Islands lie,
 Which otherwise the *Summer* Isles are call'd.
 Next opposite to *Florida* are seen
 Two others, one *Leucaion* takes for Name;
 The other *Bahama*: but lower down
Cuba, which now by Spaniards is possess'd.
 Yields for their Use, the Town *Havanna* call'd.
 And we *Port Royal* from *Jamaica* hold.

EASTWARD

EASTWARD of these, *Hispaniola* lies
 And *Porto-rico*, which they also own :
 And then a Course of smaller Isles appears
 Call'd the *Caribbee* by a single Name.
 For the *Caribbee* Indians held them once
 With the adjoining Continent ; the whole
 Lies on the Shore, of South America,
 Here are *Antigua*, and *Barbadoes* seen.
Tobago and *St. Christopher* : the last
 Is *Nevis*, all of which the English hold :
 But *Martinico* and *Guadalupe*,
 These are two Islands, by the French possess'd.
 Of South America then near the Foot
 Are other Isles, the principal of which
 Has *Terra del Fuego* for its Name,
 Plac'd opposite the *Magellanic* Streights.

WESTWARD again, near North America
 Extends an Island, *California* call'd,
 And thought the biggest of all other Isles.
 Such are the larger in the Ocean's Bed,
 While many undiscover'd yet remain :
 Some in the Sea, which laves America,
 And some surrounded by the Lybian Waves,
 Others again, where Asia's District lies
 And some around the Européan Realms.
 Some here and there dispers'd, unnumber'd yet,
 Which part for Men an Habitation yield,
 While some, for Vessels useful Ports afford,
 Others again with Precipices dread,

Which Sailors never offer to approach,
 Distinguish'd by so many various names
 As proves a Task too arduous to recite.



C H A P. XXXVI.

THE EPILOGUE.

SO many Nations fill the Worlds vast Space,
 While countless others want a dwelling Place.
 No Mortal could rehearse each various Name,
 'Tis God alone Omniscience can claim.
 'Twas HE who first the grand Foundation laid,
 And of the trackless Sea, the Depth display'd.
 On HIM alone each Certainty depends.
 HE form'd the Stars, and their appointed Ends;
 Allotted Portions were by him design'd,
 From Earth and Sea, for every various Kind.
 Hence Things on Earth a different Aspect shew,
 Some fair, some light, and some a darker Hue.
 Others again from each receive a Shade,
 And for Man's Use in different Forms are made.
 But now adieu each *Continent* and *Isle* !
 Ye *Ocean's* Waves, and *Seas* where Nereids smile !
 Ye *RIVERS*, *Fountains*, ; each a long Farewell !
 And shady Mountains where the Muses dwell !
 Thus o'er the Deep, my Passage have I made,
 And all along the winding Shores survey'd.
 Happy my Labours if my Muse obtains
 A fit Reward, or equal to her Pains.

Another

Another EPILOGUE not from the Greek.

THUS may the *Voyager* from this Review
See once again the Countries which he
knew :

Here have I been, or there — collecting yet
Things from Occurrences he can't forget :
And those, who wish new Regions to explore,
May gain some Prospect from their native Shores:
Travel, not fearing Dangers of the Way,
Where SCYTHIAN *Herd*s, or TRIBES of *Arabs*
stray :

Or pass unhurt the bloody Fields in Thought,
Where *Cæsar* once, or *Alexander* fought.

F I N I S.

21 AP 65.

A C A T.

A CATALOGUE

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